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STATISTICS OF HAWAIIAN AGRICULTURE 1984

Prepared by
HAWAII AGRICULTURAL REPORTING SERVICE
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A Cooperative Function of

Hawaii
Department of Agriculture
Marketing & Consumer Services Division

United States
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Statistical Reporting Service

EXECUTIVE CHAMBERS

HONOLULU

GEORGE R. ARIYOSHI
GOVERNOR

MESSAGE FROM GOVERNOR GEORGE R. ARIYOSHI

The health of our agriculture sector remains extremely important to Hawaii's economy. Diversified agriculture continues to grow, an indication of the desire of our farmers to expand and achieve self-sufficiency. The statewide contribution is apparent when one pauses long enough to see the jobs, food supplies, tax contributions, and other growth incentives that are generated from within the agricultural industry. Agriculture has and always will complement the beauty of our State as it remains a great place in which to live or visit.

This administration recognizes and supports the need for a well-organized agricultural community. We welcome the opportunity to assist our farmers in achieving independence as they solve complex questions relating to new alternatives in a tropical environment.

George R. Ariyoshi

GEORGE R. ARIYOSHI
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In spite of a severe drought that extended through much of 1984, Hawaii's agriculture picture was painted with many bright areas that deserve to be highlighted. The total value of diversified agriculture established a new record high while going over $200 million in farm value for the second consecutive year. Flowers and nursery products remained the dominant diversified agriculture category as they also exceeded their previous record high level. Noteworthy gains were made in vegetables, bananas, macadamia nuts and egg receipts as our farmers strived to increase their productivity, reduce the reliance on mainland and foreign imports, and provide a top quality product for local consumption, as well as the export markets.

Hawaiian grown coffee is featured in this year's "Statistics of Hawaiian Agriculture" in a special layout that depicts the crop in all major stages of development. The rejuvenation of this unique crop is making an important contribution in terms of a high quality, high visibility product that is providing labor intensive jobs as well as promoting the name of our great State.

"Statistics of Hawaiian Agriculture" is our annual summary publication which is one of an extensive schedule of over 180 statistical reports issued by the Hawaii Agricultural Reporting Service. This statistical program is a joint effort of the Hawaii Department of Agriculture and the Statistical Reporting Service, U. S. Department of Agriculture. Through this cooperative arrangement, we are able to provide a comprehensive program of quality statistics without duplication of resources.

Jack K. Suwa
Jack K. Suwa
Chairman, Board of Agriculture

"Support Hawaiian Agricultural Products"

Hawaii
Department of Agriculture
Marketing & Consumer Services Division

United States
Department of Agriculture
Statistical Reporting Service

HAWAII
AGRICULTURAL REPORTING SERVICE
P. O. Box 22159
Honolulu, Hawaii 96822

We are very grateful to the many farmers and ranchers throughout Hawaii who have participated in numerous agricultural surveys which provide the basis for the information in this publication. Their responses are supplemented by information from grower organizations and agribusiness firms. Several other State and Federal agencies also contribute toward the development of these statistics. This cooperation from the agricultural sector is largely responsible for the success of our statewide estimating program and is greatly appreciated.

Special recognition for the preparation of this publication is given to Joyce Jay, editor, Amy Quinlan, typist, and Ronald Nakamura, who prepared the feature presentation on coffee.

The entire Hawaii Agricultural Reporting Service staff has contributed all year to the generation and publication of the individual reports which are summarized in this annual publication. It is a pleasure to be associated with this unit of dedicated employees:

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The reports published by this office are free to agricultural producers and other contributors. A nominal fee is charged others for printing and mailing costs. Please see page 99 for a list of reports, the frequency of their publication and our office street and mailing addresses.

Sincerely,

Aubrey R. Davis
Statistician in Charge

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HAWAII AGRICULTURE 1984

Although sugar prices were lower, Hawaii's 1984 agricultural picture clearly identified two bright spots in the record high values for pineapple (including processing) and diversified agriculture. The farm value of the State's agriculture was set at $553.9 million, a 3 percent decline that was influenced primarily by sugar. However, when the processed values of sugar and pineapple plus government payments are included, the contribution of agriculture to the State's economy is boosted to $853.1 million, 2 percent greater than 1983 and the third best year of record.

A slight increase in 1984 sugar production was not enough to overcome the lower raw sugar price. Dry weather during most of the year helped to raise the sugar content of cane and aided harvesting, but because of the drought, the production outlook for the 1985 and 1986 crops is not as favorable. A decline in the equivalent farm value of pineapple resulted from a sharp drop in production, however, because of a stronger market for canned products caused by drought reduced production in major competing countries and lower inventories, the industry overall (including the processed value) enjoyed record high receipts.

Diversified agriculture experienced its best year ever as farmers rang up sales of $207.8 million, a 3 percent increase from 1983. Highlights show record high returns from flowers, nursery products and vegetables and increased returns from macadamia nuts, and milk offsetting declines for coffee, papayas, and cattle.

SUMMARY: Acreage in crop and total farm acreage, by islands, 1980-84

Year	Sugarcane	Pineapples[1]	Vegetables and melons[2]	Fruits (excluding pineapples)	Coffee	Macadamia nuts	Miscellaneous crops[3]	Total farm acreage[4]
	1,000 acres							
	STATE[5]							
1980...	217.7	43.0	3.9	5.2	1.9	13.3	6.4	1,970
1981...	216.1	41.0	4.2	5.4	1.8	13.8	8.0	1,965
1982...	204.8	36.0	4.1	5.6	2.0	15.0	11.3	1,960
1983...	194.3	36.0	5.1	6.1	2.0	15.8	12.2	1,960
1984...	**188.4**	**35.0**	**5.3**	**6.5**	**2.0**	**16.9**	**11.9**	**1,950**
	HAWAII							
1980...	91.2		1.5	3.6	1.9	12.1	1.0	1,150
1981...	90.5		1.5	3.7	1.8	12.6	1.1	1,150
1982...	83.2		1.5	3.9	2.0	[6]13.8	1.0	1,145
1983...	75.6		1.9	4.4	2.0	14.5	1.1	1,145
1984...	**70.9**		**2.0**	**4.6**	**2.0**	**15.5**	**1.0**	**1,140**
	KAUAI/NIIHAU							
1980...	46.0	*	.1	.7		[7]	.6	275
1981...	45.8	*	.1	.8		[7]	.6	275
1982...	44.9	*	.1	.7		[7]	.7	275
1983...	44.1	*	.1	.7		[7]	.7	275
1984...	**43.9**	*	**.1**	**.9**		[7]	**.7**	**275**
	MAUI/MOLOKAI/LANAI							
1980...	47.4	31.5	1.2	.1		[7]	3.4	420
1981...	47.1	30.0	1.4	.1		[7]	4.9	420
1982...	47.5	24.5	1.4	.2		[7]	8.9	420
1983...	47.4	24.5	1.8	.2		[7]	8.9	420
1984...	**47.2**	**23.2**	**1.8**	**.2**		[7]	**9.0**	**420**
	OAHU							
1980...	33.1	11.5	1.1	.8		[7]	1.4	125
1981...	32.7	11.0	1.2	.8		[7]	1.4	125
1982...	29.2	11.5	1.1	.8		[7]	.7	125
1983...	27.2	11.5	1.3	.8		[7]	1.5	125
1984...	**26.4**	**11.8**	**1.4**	**.8**		[7]	**1.2**	**120**

* = Less than 500 acres.
[1] Land used for pineapple.
[2] Harvested acreage.
[3] Includes taro, seed corn, feed and forage crops (excluding pineapple feed products), and flowers, foliage and nursery products.
[4] Includes land not in crop and pasture such as farm house lots, roads, woodlots, etc.
[5] Sum of island estimates may not add to State total due to rounding.
[6] Revised.
[7] Island data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARY: Number of crop farms, by islands, 1980-84

Year	Sugar	Pineapples	Vegetables and melons	Fruits (excluding pineapples)	Coffee	Macadamia nuts	Taro	Flowers and nursery products
				STATE				
1980...	380	18	585	692	650	475	122	640
1981...	360	18	583	657	625	490	123	680
1982...	285	18	620	700	620	520	127	650
1983...	230	18	683	724	610	600	155	680
1984...	**185**	**18**	**677**	**800**	**615**	**605**	**137**	**670**
				HAWAII				
1980...	369		213	410	650	469	41	300
1981...	349		216	392	625	485	40	330
1982...	274		241	424	620	515	45	310
1983...	219		300	445	610	595	67	320
1984...	**174**		**310**	**520**	**615**	**595**	**57**	**315**
				KAUAI				
1980...	5	3	51	78		3	50	25
1981...	5	3	48	77		2	50	25
1982...	5	3	52	82		2	49	25
1983...	5	3	62	80		2	54	25
1984...	**5**	**3**	**62**	**81**		**4**	**50**	**25**
				MAUI/MOLOKAI/LANAI				
1980...	3	13	75	38		2	[1]27	95
1981...	3	13	75	33		2	30	85
1982...	3	13	78	37		2	29	80
1983...	3	13	80	50		2	25	85
1984...	**3**	**13**	**80**	**48**		**3**	**20**	**80**
				OAHU				
1980...	3	2	246	166		1	[1]4	220
1981...	3	2	244	155		1	3	240
1982...	3	2	249	157		1	4	235
1983...	3	2	241	149		1	9	250
1984...	**3**	**2**	**225**	**151**		**3**	**10**	**250**

[1] Revised.

SUMMARY: Number of livestock operations and total number of farms, by islands, 1980-84[1]

Year	Cattle[2]	Hogs	Milk	Eggs	Broilers	Honey	Total (non-duplicated)[3]
				STATE			
1980...	[4]850	650	[4]80	60	10	27	4,300
1981...	[4]900	650	[4]80	55	10	28	4,400
1982...	[4]1,000	650	[4]90	55	10	30	[4]4,500
1983...	[4]950	650	[4]90	55	9	27	[4]4,500
1984...	**850**	**650**	**90**	**55**	**8**	**26**	**4,600**
				HAWAII			
1980...	[4]395	80	30	23		3	2,500
1981...	[4]425	70	30	23		3	[4]2,550
1982...	[4]490	75	39	24		6	[4]2,600
1983...	[4]450	85	39	26		6	[4]2,600
1984...	**395**	**85**	**40**	**25**		**6**	**2,650**
				KAUAI/NIIHAU			
1980...	[4]165	110	11	6	2	14	300
1981...	[4]175	115	11	4	2	12	[4]350
1982...	[4]190	115	14	4	2	12	[4]375
1983...	[4]180	120	12	4	1	11	[4]375
1984...	**165**	**125**	**13**	**4**	**1**	**11**	**375**
				MAUI/MOLOKAI/LANAI			
1980...	210	110	16	5		5	500
1981...	[4]220	110	16	5		5	500
1982...	[4]230	100	15	6		5	[4]525
1983...	[4]235	115	16	6		5	[4]525
1984...	**215**	**105**	**16**	**6**		**4**	**550**
				OAHU			
1980...	80	350	23	26	8	5	1,000
1981...	[4]80	355	23	23	8	8	1,000
1982...	[4]90	360	22	21	8	7	1,000
1983...	[4]85	330	23	19	8	5	1,000
1984...	**75**	**335**	**21**	**20**	**7**	**5**	**1,025**

[1] End of year.
[2] Includes beef, dairy, and dairy replacement operations.
[3] Based on farm definition of $1,000 or more of agricultural sales.
[4] Revised.

SUMMARY: Volume of crop marketings, by islands, 1980-84

Year	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Vegetables and melons	Fruits (excluding pineapples)	Coffee (parchment)	Macadamia nuts (in shell)	Taro
	1,000 tons		1,000 pounds				
			STATE[1]				
1980...	9,214	657	70,710	67,800	1,440	33,390	6,400
1981...	8,831	636	73,330	83,010	2,210	33,360	6,100
1982...	8,808	670	72,740	70,820	990	36,720	6,460
1983...	8,926	722	89,400	78,900	2,800	36,420	5,440
1984...	**8,454**	**600**	**86,770**	**99,430**	**1,800**	**37,700**	**6,310**
			HAWAII				
1980...	3,718		31,290	51,570	1,440	33,270	700
1981...	3,507		32,040	64,650	2,210	33,240	450
1982...	3,780		34,510	55,010	990	36,600	880
1983...	3,840		40,100	67,170	2,800	36,200	740
1984...	**3,420**		**37,590**	**75,320**	**1,800**	**37,500**	**795**
			KAUAI/NIIHAU				
1980...	1,873	*	1,460	8,080		[2]	4,550
1981...	1,949	*	1,590	10,860		[2]	4,450
1982...	1,869	*	1,620	8,160		[2]	4,360
1983...	1,667	*	2,040	5,000		[2]	3,450
1984...	**1,599**	*	**1,890**	**16,450**		[2]	**4,350**
			MAUI/MOLOKAI/LANAI				
1980...	2,278	479	23,980	2,200		[2]	[2]
1981...	2,038	466	25,640	1,480		[2]	[2]
1982...	1,853	467	25,230	2,270		[2]	[2]
1983...	2,232	509	32,820	2,530		[2]	[2]
1984...	**2,283**	**419**	**32,730**	**1,420**		[2]	[2]
			OAHU				
1980...	1,345	178	13,980	5,950		[2]	[2]
1981...	1,337	170	14,060	6,020		[2]	[2]
1982...	1,306	203	11,380	5,380		[2]	[2]
1983...	1,187	213	14,440	4,200		[2]	[2]
1984...	**1,152**	**181**	**14,560**	**6,240**		[2]	[2]

* = Less than 500 tons.

[1] Sum of island estimates may not add to State total due to rounding of State estimates to 1,000 hundredweight of some crops included in United States totals.

[2] Island data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARY: Volume of livestock marketings, by islands, 1980-84

Year	Beef (dressed weight)[1]	Pork (dressed weight)	Milk	Eggs	Broilers and chickens (ready-to-cook weight)	Honey
	1,000 pounds		Million pounds	Million	1,000 pounds	
			STATE[2]			
1980...	28,809	8,012	149.4	220.5	7,890	861
1981...	28,666	8,708	147.9	221.3	9,046	875
1982...	29,048	8,557	106.4	202.2	8,571	920
1983...	31,985	7,693	143.7	197.3	8,947	1,305
1984...	**32,116**	**7,878**	**146.0**	**209.7**	**8,102**	**1,107**
			HAWAII			
1980...	18,201	929	[3]	[3]	[3]	[3]
1981...	18,179	947	[3]	[3]	[3]	[3]
1982...	19,880	776	[3]	[3]	[3]	[3]
1983...	20,827	731	[3]	[3]	[3]	[3]
1984...	**20,906**	**651**	[3]	[3]	[3]	[3]
			KAUAI			
1980...	3,165	648	[3]	[3]	[3]	[3]
1981...	2,342	704	[3]	[3]	[3]	[3]
1982...	1,992	636	[3]	[3]	[3]	[3]
1983...	2,228	572	[3]	[3]	[3]	[3]
1984...	**2,132**	**593**	[3]	[3]	[3]	[3]
			MAUI/MOLOKAI			
1980...	5,838	1,852	[3]	[3]	[3]	[3]
1981...	6,321	2,090	[3]	[3]	[3]	[3]
1982...	6,224	2,016	[3]	[3]	[3]	[3]
1983...	7,115	1,802	[3]	[3]	[3]	[3]
1984...	**7,686**	**1,819**	[3]	[3]	[3]	[3]
			OAHU			
1980...	1,605	4,583	119.4	191.1	7,550	[3]
1981...	1,824	4,967	116.6	192.7	8,684	[3]
1982...	952	5,189	75.6	174.1	8,214	[3]
1983...	1,815	4,588	112.2	165.1	[3]	[3]
1984...	**1,392**	**4,815**	**112.2**	**177.7**	[3]	[3]

[1] Includes slaughter cattle but excludes calves shipped out-of-State.
[2] State totals may not add due to rounding.
[3] Island data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARY: Value of crop sales, by islands, 1980-84

Year	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Vegetables and melons	Fruits (excluding pineapples)	Coffee (parchment)
			1,000 dollars		
			STATE		
1980...	385,100	76,596	18,552	12,982	2,304
1981...	207,500	89,745	21,669	15,516	4,420
1982...	230,800	94,364	23,024	14,846	2,129
1983...	266,900	100,376	25,996	14,593	6,300
1984...	**256,200**	**89,928**	**26,434**	**13,315**	**4,770**
			HAWAII		
1980...	137,500		7,274	9,619	2,304
1981...	76,800		8,827	11,521	4,420
1982...	86,900		10,792	11,472	2,129
1983...	100,000		10,731	12,412	6,300
1984...	**94,000**		**10,238**	**9,360**	**4,770**
			KAUAI		
1980...	83,600	*	537	1,536	
1982...	46,000	*	595	2,095	
1982...	51,000	*	601	1,451	
1983...	52,400	*	672	634	
1984...	**52,400**	*	**594**	**1,913**	
			MAUI/MOLOKAI/LANAI		
1980...	100,800	36,404	5,276	383	
1981...	50,500	39,915	6,352	291	
1982...	55,000	38,602	6,356	496	
1983...	73,500	45,099	8,032	503	
1984...	**72,600**	**42,176**	**9,088**	**343**	
			OAHU		
1980...	63,200	40,192	5,465	1,444	
1981...	34,200	49,830	5,895	1,609	
1982...	37,900	55,762	5,275	1,427	
1983...	41,000	55,277	6,561	1,044	
1984...	**37,200**	**47,752**	**6,514**	**1,699**	

See footnotes at end of table.

Continued

SUMMARY: Value of crop sales, by islands, 1980-84 -- Continued

Year	Macadamia nuts (in shell)	Taro	Field crops (not estimated separately)[1]	Flowers and nursery products[2]	Total crops[3]
			1,000 dollars		
			STATE		
1980...	24,174	1,280	4,101	27,688	552,877
1981...	26,454	1,305	5,107	29,482	401,348
1982...	27,136	1,447	4,651	30,600	429,147
1983...	23,928	1,229	6,277	36,165	481,964
1984...	**26,088**	**1,382**	**5,662**	**42,905**	**466,884**
			HAWAII		
1980...	24,071	162	60	12,089	193,169
1981...	26,355	104	56	12,496	140,712
1982...	27,047	197	12	13,559	152,243
1983...	23,783	185	39	14,316	167,951
1984...	**25,950**	**205**	**142**	**16,944**	**161,794**
			KAUAI		
1980...	[4]	865	1,085	615	88,296
1981...	[4]	934	1,297	740	51,724
1982...	[4]	972	1,384	299	55,763
1983...	[4]	762	1,722	421	56,648
1984...	[4]	**918**	**1,690**	**788**	**58,325**
			MAUI/MOLOKAI/LANAI		
1980...	[4]	[4]	1,773	4,342	149,218
1981...	[4]	[4]	2,387	3,979	103,685
1982...	[4]	[4]	3,029	3,925	107,687
1983...	[4]	[4]	3,977	4,489	135,934
1984...	[4]	[4]	**3,708**	**4,546**	**132,774**
			OAHU		
1980...	[4]	[4]	1,183	10,642	122,194
1981...	[4]	[4]	1,367	12,267	105,227
1982...	[4]	[4]	226	12,817	113,454
1983...	[4]	[4]	539	16,939	121,431
1984...	[4]	[4]	**122**	**20,627**	**113,991**

* = Less than $50,000.

[1] Forage and grain crops.

[2] Flowers, foliage, and nursery products.

[3] Total crop values shown for individual islands are actual. Sum of individual commodities may not add to total. Forest product's value combined and included in total crop value.

[4] Island data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARY: Value of livestock sales, total value of crop and livestock sales, and government payments, by islands, 1980-84

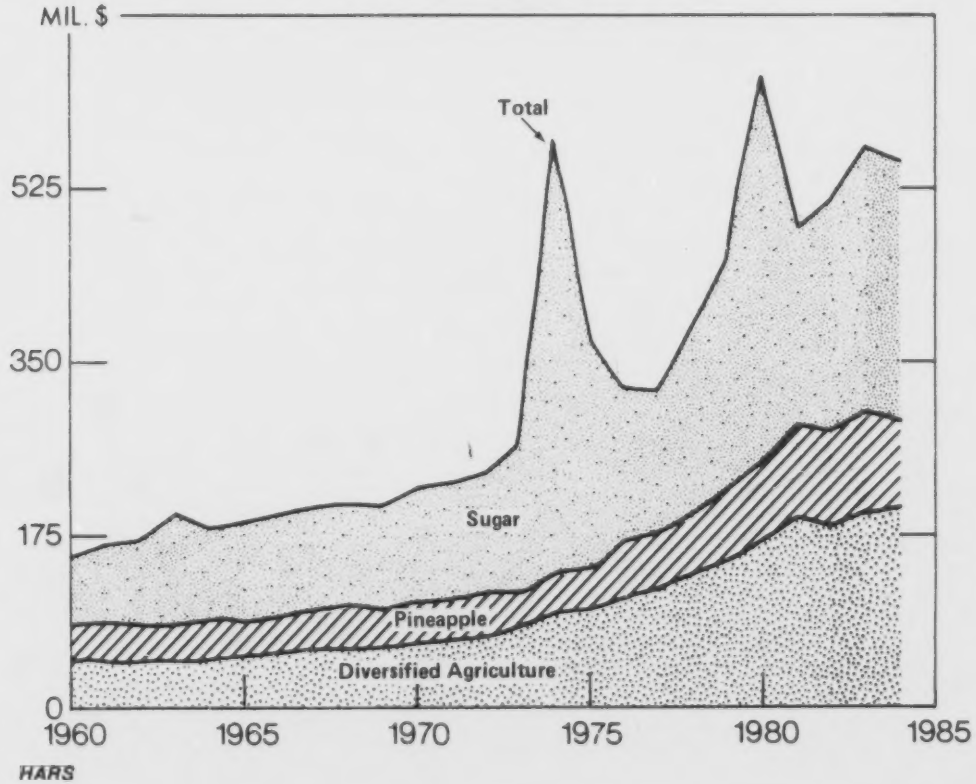
Year	Cattle[1]	Hogs[1]	Milk	Eggs	Broilers and chickens	Other[2]	Total livestock[3]	Total crops and livestock	Government payments[4]
	1,000 dollars								
	STATE								
1980...	28,074	7,457	27,071	13,910	4,181	531	81,224	634,101	716
1981...	28,405	8,382	30,320	15,159	5,307	581	88,154	489,502	587
1982...	27,619	8,465	21,908	14,542	5,240	634	78,408	507,555	586
1983...	29,308	7,775	28,869	14,041	5,529	966	86,488	568,452	6,775
1984...	**28,101**	**8,088**	**29,288**	**15,535**	**5,189**	**824**	**87,025**	**553,909**	**2,675**
	HAWAII								
1980...	17,973	892	[5]	[5]	[5]	337	22,471	215,640	542
1981...	18,059	954	[5]	[5]	[5]	379	23,018	163,730	440
1982...	18,907	758	[5]	[5]	[5]	464	23,777	176,020	476
1983...	18,831	785	[5]	[5]	[5]	723	23,873	191,824	401
1984...	**18,126**	**729**	[5]	[5]	[5]	**535**	**23,233**	**185,027**	**458**
	KAUAI								
1980...	3,118	674	[5]	[5]	[5]	45	5,732	94,028	41
1981...	2,295	746	[5]	[5]	[5]	63	5,244	56,968	43
1982...	1,913	683	[5]	[5]	[5]	22	4,724	60,487	27
1983...	2,139	633	[5]	[5]	[5]	45	5,111	61,759	101
1984...	**2,041**	**668**	[5]	[5]	[5]	**116**	**5,213**	**63,538**	**47**
	MAUI/MOLOKAI/LANAI								
1980...	5,580	1,865	[5]	[5]	[5]	115	10,084	159,302	87
1981...	6,398	2,146	[5]	[5]	[5]	91	11,605	115,290	69
1982...	6,043	2,110	[5]	[5]	[5]	105	11,358	119,045	64
1983...	6,893	1,922	[5]	[5]	[5]	151	12,393	148,327	96
1984...	**6,889**	**1,940**	[5]	[5]	[5]	**125**	**12,521**	**145,295**	**94**
	OAHU								
1980...	1,403	4,026	21,719	11,767	3,988	34	42,937	165,131	46
1981...	1,653	4,536	24,136	12,837	5,077	48	48,287	153,514	35
1982...	756	4,914	15,687	12,160	4,989	43	38,549	152,003	19
1983...	1,445	4,435	22,496	11,412	[5]	47	45,111	166,542	6,177
1984...	**1,045**	**4,751**	**22,485**	**12,809**	[5]	**48**	**46,058**	**160,049**	**2,076**

[1] Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.
[2] Includes sheep, wool, turkeys, horses, honey, and beeswax.
[3] Total livestock value shown for individual islands for 1980 are actual. Sum of individual commodities may not add to total.
[4] Includes all government payments, such as Agricultural Conservation Program, Dairy Indemnity Payment Program, Emergency Conservation Program, Forestry Incentives Program, Emergency Feed Program, wool payments, and sugar support.
[5] Island data not shown separately to avoid disclosure of individual operations but combined and included in State total.

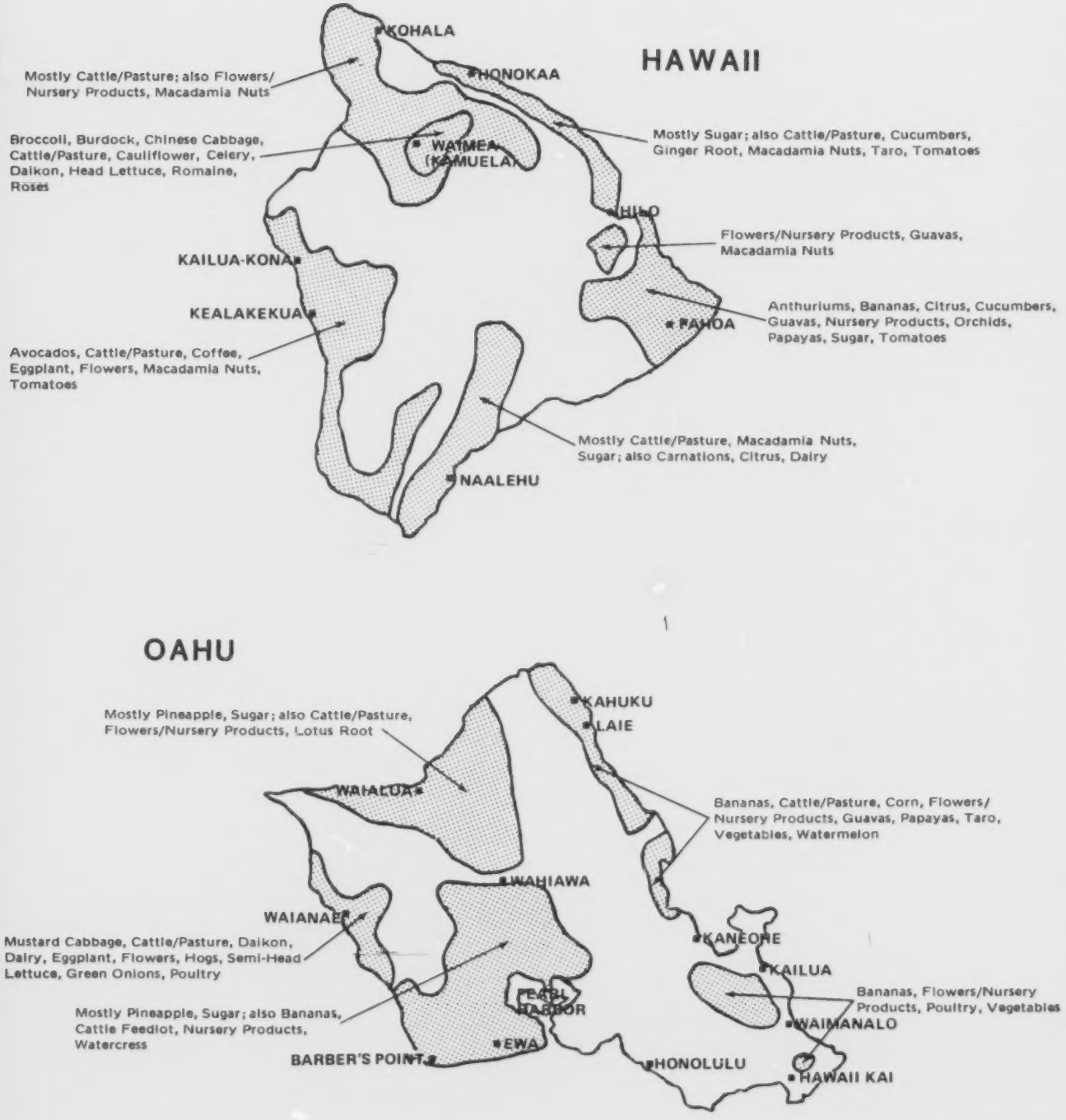
Diversified agriculture ranked by value, State of Hawaii, 1982-84

Crops	Rank			Value of production			Percent of diversified agriculture		
	1982	1983	1984	1982	1983	1984	1982	1983	1984
	Number			1,000 dollars			Percent		
Flowers and nursery products	1	1	1	30,600	36,165	42,905	16.8	18.0	20.6
Milk	5	3	2	21,908	28,869	29,288	12.0	14.3	14.1
Cattle	2	2	3	27,619	29,308	28,101	15.2	14.6	13.5
Vegetables and melons	4	4	4	23,024	25,996	26,434	12.6	12.9	12.7
Macadamia nuts	3	5	5	27,136	23,928	26,088	14.9	11.9	12.6
Eggs	7	7	6	14,542	14,041	15,535	8.0	7.0	7.5
Fruits (excluding pineapple)	6	6	7	14,846	14,593	13,315	8.1	7.3	6.4
Hogs	8	8	8	8,465	7,775	8,088	4.6	3.9	3.9
Forage, grain, and forest products	10	10	9	4,801	6,477	5,862	2.6	3.2	2.8
Broilers and chickens	9	9	10	5,240	5,529	5,189	2.9	2.7	2.5
Coffee	11	11	11	2,129	6,300	4,770	1.2	3.1	2.3
Taro	12	12	12	1,447	1,229	1,382	.8	.6	.7
Other livestock	13	13	13	634	966	824	.3	.5	.4
TOTAL				182,391	201,176	207,781	100.0	100.0	100.0

CASH RECEIPTS OF AGRICULTURAL COMMODITIES, STATE OF HAWAII, 1960-84

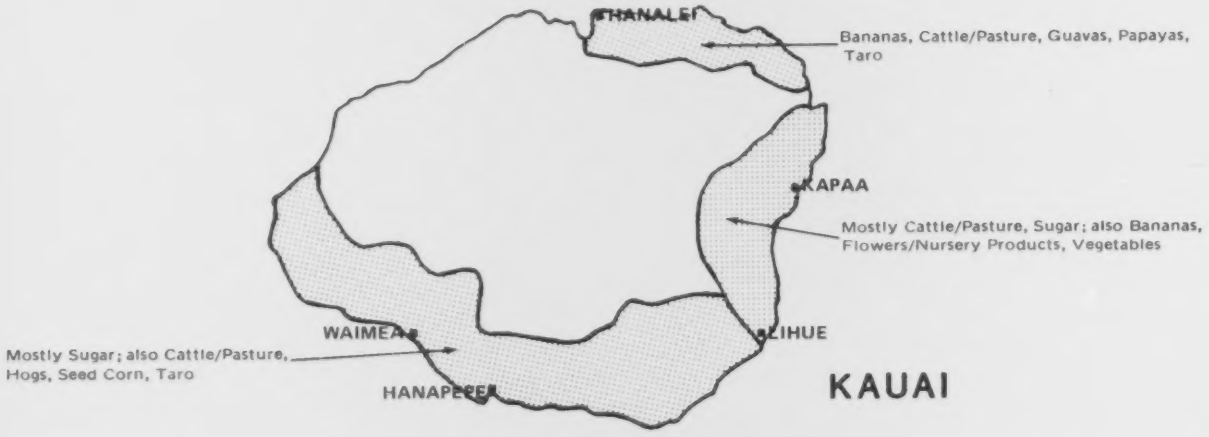


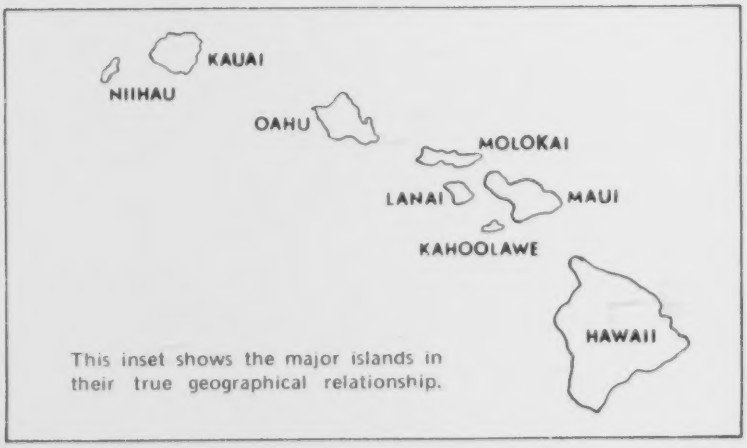
MAJOR AGRICULTURAL AREAS, STATE OF HAWAII, 1984


HAWAII
KOHALA
HONOKAA
WAIMEA (KAMUELA)
HILO
KAILUA-KONA
KEALAKEKUA
PAHOA
NAALEHU
Mostly Cattle/Pasture; also Flowers/ Nursery Products, Macadamia Nuts
Broccoli, Burdock, Chinese Cabbage, Cattle/Pasture, Cauliflower, Celery, Daikon, Head Lettuce, Romaine, Roses
Mostly Sugar; also Cattle/Pasture, Cucumbers, Ginger Root, Macadamia Nuts, Taro, Tomatoes
Flowers/Nursery Products, Guavas, Macadamia Nuts
Anthuriums, Bananas, Citrus, Cucumbers, Guavas, Nursery Products, Orchids, Papayas, Sugar, Tomatoes
Avocados, Cattle/Pasture, Coffee, Eggplant, Flowers, Macadamia Nuts, Tomatoes
Mostly Cattle/Pasture, Macadamia Nuts, Sugar; also Carnations, Citrus, Dairy
OAHU
KAHUKU
LAIE
WAIALUA
WAHIAWA
WAIANAE
KANEOHE
KAILUA
PEARL HARBOR
WAIMANALO
EWA
BARBER'S POINT
HONOLULU
HAWAII KAI
Mostly Pineapple, Sugar; also Cattle/Pasture, Flowers/Nursery Products, Lotus Root
Bananas, Cattle/Pasture, Corn, Flowers/ Nursery Products, Guavas, Papayas, Taro, Vegetables, Watermelon
Mustard Cabbage, Cattle/Pasture, Daikon, Dairy, Eggplant, Flowers, Hogs, Semi-Head Lettuce, Green Onions, Poultry
Mostly Pineapple, Sugar; also Bananas, Cattle Feedlot, Nursery Products, Watercress
Bananas, Flowers/Nursery Products, Poultry, Vegetables

MAUI
Mostly Pineapple, Sugar; also Cattle/Pasture, Flowers/Nursery Products, Hogs, Macadamia Nuts
Sugar, Pineapple
WAILUKU
KAHULUI
LAHAINA
Head Cabbage, Carnations, Cattle/Pasture, Dairy, Head Lettuce, Nursery Products, Dry Onions, Protea, Romaine, Tomatoes
KIHEI
KULA
HANA
Cattle/Pasture
Mostly Cattle/Pasture; also Bananas, Flowers/Nursery Products, Papayas

Mostly Cattle/Pasture, Pineapple; also Snap Beans, Hay, Hogs, Nursery Products, Green Peppers, Seed Corn, Sweetpotatoes, Watermelon
MOLOKAI
KAUNAKAKAI
LANAI
LANAI CITY
Pineapples


HANALEI
Bananas, Cattle/Pasture, Guavas, Papayas, Taro
KAPAA
Mostly Cattle/Pasture, Sugar; also Bananas, Flowers/Nursery Products, Vegetables
WAIMEA
LIHUE
Mostly Sugar; also Cattle/Pasture, Hogs, Seed Corn, Taro
HANAPEPE
KAUAI


KAUAI
NIIHAU
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
HAWAII
This inset shows the major islands in their true geographical relationship.

1984 CROP SUMMARY

Hawaii farmers turned on the irrigation pipes in 1984 to combat another hot, dry year. Weather conditions suppressed production for the majority of Hawaii's crops as low rainfall and record high temperatures increased water usage which in turn forced water conservation measures to take effect on Hawaii, Maui, Oahu, and Kauai by late summer. Agricultural losses, however, varied among crops and localities. Sugar production was up while pineapple and most diversified crops showed weather related declines. The most severely impacted area was Waimea on Hawaii island which has witnessed recurring droughts since December 1980. Water levels became critically low in September and by November some farmers were allotted only 1,000 gallons per day. As a result, production of many of the State's salad vegetables recorded decreases in production for the year. Toward the end of November, heavy rains once again returned to the State and water restrictions were lifted in most areas. A few crops showed increased production in 1984 largely due to expanded harvested acreage and abnormally low yields the previous year caused by damage sustained from Hurricane Iwa. Most crops showed gains in farm value as higher prices resulted from production levels being reduced by the dry weather.

SUGAR production is estimated at 1,062,000 tons, up 2 percent from 1983. A record sugar yield is responsible for increased production as both harvested acreage and cane production decreased last year. Although dry weather helped the industry achieve a record sugar yield, it also forced early harvesting for some fields to avoid total losses and delayed plantings. Last year's low rainfall is expected to reduce yields in 1985 and possibly into 1986. Prices decreased for the first time since 1981 with the processed value of sugar and molasses estimated at $393.0 million, down 4 percent from the previous year. An import quota set too high, market gains by high-fructose corn syrup, and higher domestic production are some of the reasons cited by the industry for the lower sugar returns.

PINEAPPLE production declined in 1984 to 600,000 tons due to drought reduced yields and less acreage. The dry conditions also caused some losses among new plantings which had inadequate irrigation water. The equivalent farm value declined from 1983 because of the lower production, however, the overall value including processing was a record high for the industry.

FRUIT production (excluding PINEAPPLES) hit a record 99,430,000 pounds in 1984. Leading the way were a record output in PAPAYAS and the largest BANANA crop in 20 years, two crops whose 1983 production were severely curtailed by Hurricane Iwa. GUAVA production declined to 7,000,000 pounds largely due to poor market conditions which are expected to improve in 1985.

Hawaii's **FLOWER AND NURSERY** industry achieved another record high year in 1984 as receipts totaled $42.9 million, exceeding the previous year's record value by 19 percent. Most segments of the industry registered gains, although the prolonged drought hampered production of some crops.

Foliage sales, primarily marketings of potted foliage plants intended for indoor use, continued to lead all crops and accounted for three-fifths of the total increase in value from the previous year. The value of cut flowers, excluding orchids, was 19 percent above the 1983 figure. Cut and potted orchid sales rose 17 percent, largely on the strength of increased dendrobium receipts. Lei flower returns dipped 6 percent due to the dry weather during the year which reduced production.

VEGETABLE and **MELON** production is estimated at 86,770,000 pounds, down 3 percent from 1983's record harvest. The dry weather was primarily responsible for the lower output as total harvested acreage increased. Some of the crops showing declines were HEAD CABBAGE, LETTUCE, TOMATOES, and CUCUMBERS. Among those recording increases were DRY ONIONS, GREEN PEPPERS, and WATERMELONS.

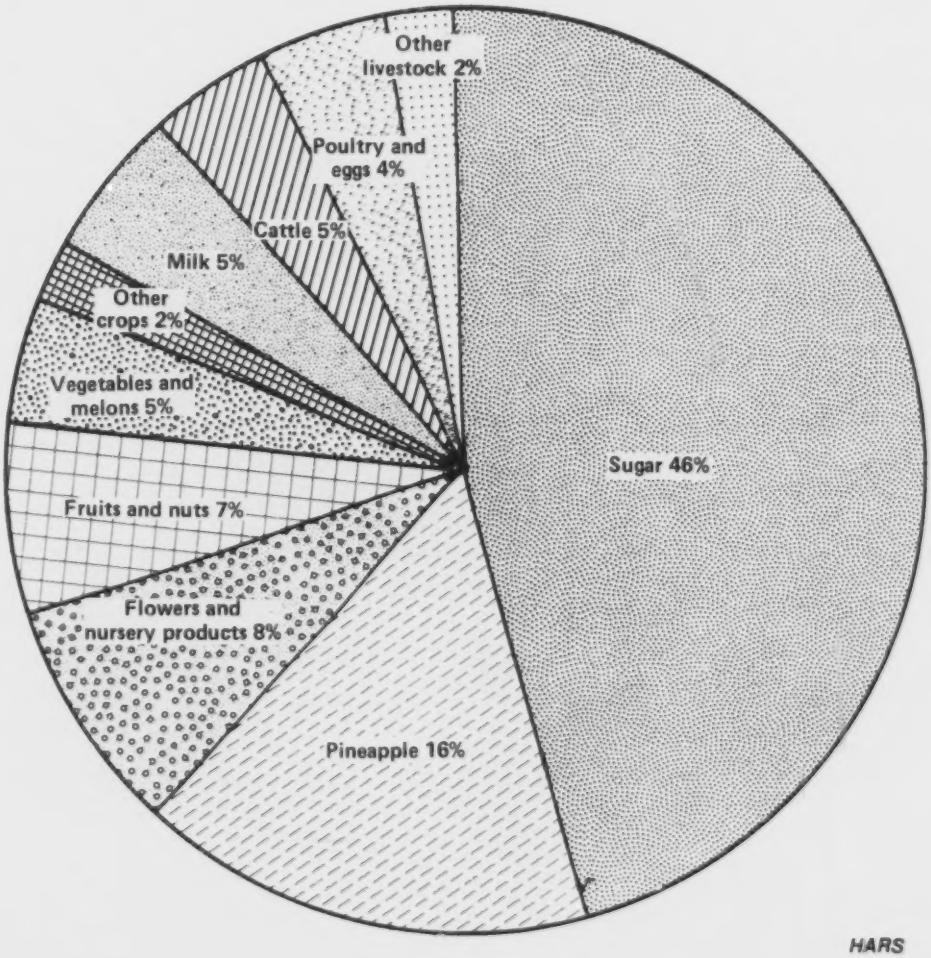
MACADAMIA NUT production (in-shell basis) hit a record 37,700,000 pounds in 1984, 4 percent higher than the previous year. The increase was fueled by a 13 percent rise in harvested acreage as the yield dropped to 3,100 pounds per acre. The effects of the dry weather on last year's crop are unknown, however, younger trees bearing for the first time were also partly responsible for a lower overall yield. Farm price climbed to 69.2 cents per pound, but was well below the record high level of 1981. Farm value totaled $26,088,000, 9 percent more than the previous season.

Dry weather, volcanic fumes, and the alternate bearing nature of the crop contributed to a 36 percent decline in **COFFEE** production to 1,800,000 pounds (parchment basis) during the 1984 season. The farm price, however, continued to strengthen as it showed an increase for the fifth consecutive year at a record $2.65 cents per pound (parchment basis). The higher price was not enough to offset the lower production as farm value fell 24 percent in 1984 to $4,770,000.

Principal crops ranked by value, State of Hawaii, 1982-84

Crops	Rank			Value of production			Percent of all crops		
	1982	1983	1984	1982	1983	1984	1982	1983	1984
	Number			1,000 dollars			Percent		
Sugar	1	1	1	230,800	266,900	256,200	53.8	55.4	54.9
Pineapple	2	2	2	94,364	100,376	89,928	22.0	20.8	19.3
Macadamia nuts	3	3	3	27,136	23,928	26,088	6.3	5.0	5.6
Potted foliage plants	5	5	4	8,820	10,836	14,050	2.1	2.2	3.0
Papayas	4	4	5	11,484	11,591	9,196	2.7	2.4	2.0
Anthuriums	6	6	6	5,633	6,035	7,351	1.3	1.3	1.6
Coffee	10	7	7	2,129	6,300	4,770	.5	1.3	1.0
Tomatoes	8	8	8	2,707	3,367	3,103	.6	.7	.7
Lettuce	9	9	9	2,463	2,806	2,458	.6	.6	.5
Ginger root	7	10	10	3,350	2,806	2,280	.8	.6	.5

STATE OF HAWAII, 1984 AGRICULTURAL VALUE RATIOS



HARS

WEATHER: Precipitation, selected stations, State of Hawaii, 1984

STATIONS	YEAR & NORMAL	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual	% OF NORMAL
ISLAND OF HAWAII															
Hawaii National Park Hq. 54	Normal	10.61	10.23	11.75	10.10	7.75	4.67	5.23	7.20	4.58	6.89	11.47	12.33	102.81	
	1984	10.48	5.10	1.78	13.84	4.49	3.77	4.22	4.75	1.63	2.99	22.74	17.35	93.14	90.6
Hawi 168	Normal	4.70	4.34	5.22	5.04	3.56	2.96	3.93	4.19	2.27	3.61	4.02	5.92	49.76	
	1984	3.73	2.65	3.01	9.07	2.67	2.20	1.65	2.25	.54	.33	3.10	4.83	36.03	72.4
Hilo (285)	Normal	9.07	12.90	13.69	12.88	10.07	6.61	9.54	10.88	7.44	10.96	13.77	15.76	133.57	
	1984	10.76	10.06	3.37	12.08	6.59	4.28	6.63	9.36	4.05	2.52	18.38	12.00	100.08	74.9
Kealakekua (HI84)	Normal	3.50	2.40	3.80	4.10	5.90	6.10	6.80	8.70	8.00	6.20	3.60	2.10	61.20	
	1984	.90	1.20	2.80	4.60	7.50	5.70	4.10	4.60	7.40	7.30	2.90	6.30	55.30	90.4
Naalehu 14	Normal	7.97	5.85	5.53	2.70	2.18	1.79	1.58	3.92	3.36	3.88	5.21	4.57	48.54	
	1984	4.16	.71	.69	1.30	.76	.25	5.49	2.76	2.47	4.49	7.60	8.83	39.51	81.4
Pahoa (HI83)	Normal	11.02	13.17	15.16	12.59	11.87	8.10	10.20	11.13	8.50	11.81	14.28	17.28	145.11	
	1984	12.40	11.30	4.73	15.74	8.53	5.97	9.01	16.02	4.26	6.08	21.61	15.40	131.05	90.3
Waimea (HI86)	Normal	4.21	3.78	3.97	3.55	2.20	1.57	2.31	2.52	1.07	2.03	2.78	4.84	34.83	
	1984	4.10	3.80	1.90	3.80	1.00	1.40	1.40	1.00	.30	.10	1.40	5.70	25.90	74.4
ISLAND OF KAUAI															
Eleele 927	Normal	5.74	3.39	3.28	2.39	1.74	1.10	1.33	1.79	1.40	2.61	3.60	5.12	33.49	
	1984	2.30	.79	1.70	1.58	.32	.78	.60	.20	1.21	2.40	1.71	6.54	20.13	60.1
Kekaha 944	Normal	4.63	2.57	2.37	1.56	1.04	.25	.39	.75	.74	1.72	2.18	4.24	22.44	
	1984	2.33	.11	1.16	.32	.00	.00	.41	.10	1.93	2.97	2.93	5.84	18.10	80.7
Wailua (HI40)	Normal	9.42	7.09	8.28	7.07	5.45	4.07	5.68	6.60	4.65	7.45	9.03	9.41	84.20	
	1984	3.90	4.30	2.60	8.00	2.30	4.20	2.80	2.20	7.40	2.20	17.70	7.30	64.90	77.1
ISLAND OF LANAI															
Lanai Airport (LNY)	Normal	5.50	1.40	1.60	.90	.70	.20	.50	.60	.70	1.60	1.20	2.30	17.20	
	1984	.77	.58	1.44	1.74	1.26	.11	.37	1.97	.07	.14	1.22	1.70	11.37	66.1
ISLAND OF MAUI															
Hamakuapoko HC & S 485	Normal	5.10	4.85	5.81	4.50	2.83	2.39	3.60	3.65	1.89	3.69	5.07	6.73	50.11	
	1984	5.24	2.18	2.64	4.30	3.12	.79	1.43	2.19	.43	.17	2.52	2.95	27.96	55.8
Hana Airport 355	Normal	9.47	7.93	8.85	7.14	5.70	3.82	5.28	5.78	4.85	6.48	8.16	6.76	80.22	
	1984	8.63	5.12	1.90	4.54	5.02	2.02	3.75	3.39	2.93	2.97	6.01	4.15	50.43	62.9
Kihei 311	Normal	3.67	1.76	2.03	.79	.27	.10	.15	.19	.07	.68	1.69	2.39	13.79	
	1984	1.51	.43	2.16	.18	.35	.00	.00	.00	.00	.00	.63	.38	5.64	40.9
Kula (HI65)	Normal	5.64	3.45	3.53	2.98	2.20	1.41	2.17	2.07	1.93	1.91	2.95	3.61	33.85	
	1984	1.55	3.75	3.44	2.14	2.50	.00	.66	1.65	6.66	.25	3.67	1.07	27.34	80.8
Lahaina 361	Normal	3.70	1.65	2.04	.93	.48	.09	.21	.33	.23	.90	2.07	2.86	15.49	
	1984	1.45	.51	2.25	.07	.60	.00	.12	.05	.02	.00	.78	.45	6.30	40.7
Wailuku (HI66)	Normal	4.88	3.81	4.16	2.41	1.02	.43	.74	.77	.49	1.86	2.79	4.65	28.01	
	1984	2.79	1.25	2.33	1.06	.34	.04	.04	.27	.07	.00	1.88	.75	10.82	38.6
ISLAND OF MOLOKAI															
Molokai Airport (MKK)	Normal	4.64	2.84	3.90	1.90	1.14	.48	.74	.76	.70	1.59	3.48	4.37	26.54	
	1984	1.50	1.88	2.75	1.06	.63	.00	.19	.04	.28	.03	1.63	2.93	12.92	48.7
ISLAND OF OAHU															
Kahuku (HI09)	Normal	4.40	3.10	4.40	2.90	1.90	1.30	1.70	2.10	1.90	2.50	3.40	4.10	33.70	
	1984	.60	2.30	1.90	3.20	1.60	1.40	.50	1.10	1.10	1.30	7.60	4.80	27.40	81.3
Waialua 847	Normal	4.99	3.65	3.84	2.32	1.34	.44	.95	1.26	.67	2.27	3.15	4.64	29.52	
	1984	1.21	1.22	1.91	2.62	.55	.26	1.14	.13	.22	1.46	--	--	10.72	36.3
Waianae (HI17)	Normal	3.79	3.13	2.31	1.12	.61	.35	.38	.84	.77	1.87	1.81	2.66	19.64	
	1984	.54	1.52	2.06	1.61	.04	.01	.17	.06	1.63	3.56	4.08	7.88	23.16	117.9
Waimanalo Exp. 795.1	Normal	8.35	3.98	5.80	4.11	2.83	1.22	1.92	1.88	1.81	3.59	6.31	6.26	48.06	
	1984	2.60	4.31	2.03	3.18	.32	.59	.91	.10	.30	2.75	9.14	6.40	32.63	67.9
Waipahu Sugar 750	Normal	5.00	2.71	3.20	1.88	1.20	.36	.76	.92	.84	2.04	3.35	4.09	26.35	
	1984	.36	1.10	1.27	1.69	.35	.11	.29	.05	.33	2.67	2.60	4.46	15.28	58.0

-- = No record. Data not recorded, determined unreliable by quality control checks, or not received in time for publication.
Source: U. S. Department of Commerce, National Oceanic and Atmospheric Administration.

SUGARCANE: Number of farms, acreage, yield, production, price, and value, by islands, 1980-84[1]

Year	Farms[2]	Acreage		Yield per acre (cane)[3]	Production of cane for sugar	Farm price[3]	Value of cane for sugar[4]
		In crop[2]	Harvested for sugar				
	Number	1,000 acres		Tons	1,000 tons	Dollars per ton	Million dollars
				STATE			
1980...	380	217.7	97.4	94.6	9,214	41.80	385.1
1981...	360	216.1	97.6	90.5	8,831	23.50	207.5
1982...	285	204.8	89.3	98.6	8,808	26.20	230.8
1983...	230	194.3	92.8	96.2	8,926	29.90	266.9
1984...	**185**	**188.4**	**89.5**	**94.5**	**8,454**	**30.30**	**256.2**
				HAWAII			
1980...	369	91.2	37.4	99.5	3,718	37.00	137.5
1981...	349	90.5	38.4	91.3	3,507	21.90	76.8
1982...	274	83.2	35.1	107.8	3,780	23.00	86.9
1983...	219	75.6	35.7	107.6	3,840	26.00	100.0
1984...	**174**	**70.9**	**33.6**	**101.8**	**3,420**	**27.50**	**94.0**
				KAUAI			
1980...	5	46.0	22.5	83.4	1,873	44.60	83.6
1981...	5	45.8	21.8	89.4	1,949	23.60	46.0
1982...	5	44.9	20.9	89.5	1,869	27.30	51.0
1983...	5	44.1	21.1	79.0	1,667	31.40	52.4
1984...	**5**	**43.9**	**21.0**	**76.1**	**1,599**	**32.80**	**52.4**
				MAUI			
1980...	3	47.4	22.5	101.3	2,278	44.20	100.8
1981...	3	47.1	22.5	90.6	2,038	24.80	50.5
1982...	3	47.5	19.2	96.3	1,853	29.70	55.0
1983...	3	47.4	22.3	100.1	2,232	32.90	73.5
1984...	**3**	**47.2**	**22.5**	**101.5**	**2,283**	**31.80**	**72.6**
				OAHU			
1980...	3	33.1	15.0	89.5	1,345	47.00	63.2
1981...	3	32.7	14.9	89.7	1,337	25.60	34.2
1982...	3	29.2	14.1	92.7	1,306	29.00	37.9
1983...	3	27.2	13.7	86.6	1,187	34.50	41.0
1984...	**3**	**26.4**	**12.4**	**92.9**	**1,152**	**32.40**	**37.2**

[1] Primary data source, Hawaiian Sugar Planters' Association.
[2] At end of year.
[3] Yield and farm price may not compute exactly due to rounding.
[4] Value of cane for sugar estimated by deducting processing and marketing costs from value of sugar and molasses. Processing costs based on toll charges paid by independent producers.

SUGAR: Production of raw sugar and molasses, price, and value, by islands, 1980-84[1]

Year	Mill production		Average returns received[3]		Value of production		
	Raw sugar 96°	Molasses[2]	Raw sugar 96°	Molasses[2]	Raw sugar 96°	Molasses[2]	Total
	1,000 tons		Dollars per ton		Million dollars		
			STATE				
1980...	1,023	315	554	87.90	566.4	27.7	594.1
1981...	1,048	312	300	43.90	314.2	13.7	327.9
1982...	983	287	350	27.60	343.9	7.6	351.5
1983...	1,044	292	380	46.00	396.5	13.7	410.2
1984...	1,062	298	360	33.80	382.9	10.1	393.0
			HAWAII				
1980...	367	107	553	86.90	202.9	9.3	212.2
1981...	384	105	299	43.80	114.9	4.6	119.5
1982...	369	99	350	27.60	129.0	2.8	131.8
1983...	392	105	379	46.00	148.6	4.9	153.5
1984...	391	109	360	33.30	140.6	3.6	144.2
			KAUAI				
1980...	223	65	553	87.70	123.4	5.7	129.1
1981...	236	69	300	43.50	71.0	3.0	74.0
1982...	217	63	351	27.10	76.2	1.6	77.8
1983...	204	63	381	46.10	77.9	2.9	80.8
1984...	217	62	361	33.90	78.3	2.1	80.4
			MAUI				
1980...	266	90	554	88.90	147.4	8.0	155.4
1981...	255	84	300	45.20	76.6	3.8	80.4
1982...	235	79	351	28.00	82.2	2.2	84.4
1983...	287	85	381	45.80	109.2	4.0	113.2
1984...	300	87	362	32.70	108.4	3.0	111.4
			OAHU				
1980...	167	53	555	88.70	92.7	4.7	97.4
1981...	173	54	299	42.60	51.7	2.3	54.0
1982...	162	46	349	27.90	56.5	1.0	57.5
1983...	161	39	379	46.20	60.8	1.9	62.7
1984...	154	40	361	33.20	55.6	1.4	57.0

[1] Primary data source, Hawaiian Sugar Planters' Association.
[2] Commercial.
[3] Derived from production and value. State and island prices may not compute exactly due to rounding.

FLOWERS AND NURSERY PRODUCTS: State of Hawaii, 1980-84

Commodity	Number of farms					Number sold					Value of sales				
	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984
											1,000 dollars				
Selected cut flowers: (000 dozens)															
Anthuriums	228	235	225	210	**205**	2,532	2,104	1,984	2,054	**2,335**	6,878	5,295	5,633	6,035	**7,351**
Birds of Paradise	27	30	30	37	**50**	27	28	17	34	**51**	70	77	58	110	**186**
Carnations	15	10	9	10	**12**	54	53	36	79	**91**	102	114	80	179	**219**
Chrysanthemums, other	4	3	3	3	**1**	7	11	2	7	**5**	27	43	9	27	**20**
Ginger, red	[1]	51	51	50	**60**	NA	65	64	68	**82**	[1]	157	205	207	**267**
Roses	6	6	6	7	**8**	339	452	478	561	**453**	798	1,032	1,381	1,761	**1,556**
Protea: (000 stems)															
Pincushion	12	14	14	15	**20**	703	518	637	491	**538**	181	183	210	100	**115**
Other	13	12	21	22	**26**	211	164	347	534	**514**	113	137	201	335	**355**
Chrysanthemums, pompon (000 bunches)	15	16	17	14	**14**	364	471	439	448	**457**	343	590	546	641	**690**
Other NSS	84	72	61	60	**75**	NA	NA	NA	NA	**NA**	752	553	406	511	**1,052**
Orchids:															
Cut: (000 flowers)															
Cattleyas	30	31	28	26	**21**	88	63	67	56	**48**	70	63	54	49	**41**
Cymbidiums	17	16	17	14	**17**	448	420	736	577	**552**	150	199	224	173	**213**
Dendrobium sprays (000 dozens)	41	51	56	60	**71**	70	83	78	123	**208**	336	431	440	774	**1,278**
Other NSS [2]	19	13	24	29	**29**	NA	NA	NA	NA	**NA**	16	10	83	120	**145**
Potted: (000 pots)															
Dendrobiums	75	96	91	90	**84**	269	243	186	229	**208**	1,189	870	777	1,032	**854**
Other orchids	67	70	66	65	**71**	245	347	312	328	**375**	1,038	1,655	1,415	1,588	**1,836**
Lei flowers: (Mil. blooms)															
Carnations	25	24	29	23	**20**	36.6	40.3	33.7	35.9	**33.6**	1,169	1,338	1,206	1,304	**1,112**
Vanda, Miss Joaquim	35	31	31	28	**28**	38.8	57.1	42.5	40.6	**28.0**	573	815	1,185	1,226	**1,090**
Plumeria	21	20	21	18	**17**	23.7	17.8	31.9	30.5	**25.4**	440	291	446	460	**484**
Tuberose	5	6	7	6	**6**	32.0	30.8	18.2	27.0	**28.0**	684	668	382	758	**720**
Dendrobiums	21	25	37	42	**37**	6.6	8.5	6.5	7.6	**10.5**	175	244	179	234	**314**
Pikake (000 strands)	16	15	16	17	**15**	147	140	116	124	**110**	169	180	155	163	**160**
Foliage:															
Potted:															
Primarily for indoor or patio use	95	94	90	80	**85**	NA	NA	NA	NA	**NA**	5,190	7,268	8,820	10,836	**14,050**
Primarily for landscape use	35	51	41	40	**45**	NA	NA	NA	NA	**NA**	1,119	1,335	930	845	**1,245**
Unfinished stock: (for further growing on)	29	27	29	24	**20**	NA	NA	NA	NA	**NA**	1,366	950	1,233	1,430	**1,525**
Cut:															
Ti leaves (Mil. leaves)	62	57	55	60	**54**	14.5	10.1	10.5	10.6	**13.3**	332	266	279	375	**507**
Other greens	34	32	30	33	**40**	NA	NA	NA	NA	**NA**	242	252	280	291	**355**
Potted flowering plants: (000 pots)															
Anthuriums	24	21	15	14	**17**	129	98	82	142	**52**	230	128	126	190	**125**
Chrysanthemums	11	11	11	8	**10**	192	205	214	218	**278**	607	689	681	743	**957**
Poinsettias	30	25	26	25	**29**	134	136	149	150	**139**	410	430	474	513	**453**
Other NSS	70	83	76	35	**38**	NA	NA	NA	NA	**NA**	221	230	417	496	**404**
Ornamentals and trees	65	72	39	42	**42**	NA	NA	NA	NA	**NA**	1,181	851	463	773	**915**
Other nursery products [3]	71	99	77	92	**102**	NA	NA	NA	NA	**NA**	1,517	2,138	1,622	1,886	**2,311**
TOTAL	[4]640	[4]680	[4]650	[4]680	**[4]670**						27,688	29,482	30,600	36,165	**42,905**

NA = Not available.
NSS = Not shown separately.
[1] Prior to 1981, included with other gingers.
[2] Includes vanda hybrids, phalaenopsis, and cypripediums.
[3] Includes bedding plants, plant rentals, and any other flowers or nursery products not elsewhere classified.
[4] Unduplicated count. Number for each individual flower or item is count of those having sales of that item during each year.

FLOWERS AND NURSERY PRODUCTS: Hawaii Island, 1980-84

Commodity	Number sold					Value of sales				
	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984
						1,000 dollars				
Selected items:										
Anthuriums (000 dozens)	2,444	2,021	1,940	1,975	2,250	6,596	5,037	5,470	5,766	7,062
Cymbidiums (000 flowers)	448	417	730	570	545	150	197	220	168	206
Vanda, Miss Joaquim (Million flowers)	36.5	55.3	41.3	39.5	24.0	534	786	1,160	1,200	950
Cut foliage	NA	NA	NA	NA	NA	325	265	320	455	580
Potted orchids (000 pots)	147	147	116	154	92	417	537	525	688	721
Potted foliage	NA	NA	NA	NA	NA	2,269	3,522	3,600	3,380	4,275
Ornamentals and trees	NA	NA	NA	NA	NA	110	165	60	30	75
Unfinished stock and cuttings	NA	NA	NA	NA	NA	661	747	400	315	250
All other flowers and nursery products [1]	NA	NA	NA	NA	NA	1,027	1,240	1,804	2,314	2,825
Total						12,089	12,496	13,559	14,316	16,944

NA = Not available.
[1] Only selected items are shown separately. All other cut and lei flowers, potted plants, nursery products, plant rental, etc. for the island are included in the "all other" category.

FLOWERS AND NURSERY PRODUCTS: Kauai Island, 1980-84

Commodity	Number sold					Value of sales				
	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984
						1,000 dollars				
Selected items:										
Anthuriums (000 dozens)	5	5	3	4	5	11	10	8	7	12
Dendrobium, sprays	NA	NA	NA	NA	11	[2]	[2]	[2]	[2]	56
Potted orchids	NA	NA	NA	NA	6	[2]	[2]	[2]	[2]	39
All other flowers and nursery products [1]	NA	NA	NA	NA	NA	604	730	291	414	681
Total						615	740	299	421	788

NA = Not available.
[1] Only selected items are shown separately. All other cut and lei flowers, potted plants, nursery products, plant rental, etc. for the island are included in the "all other" category.
[2] Included in "all other" category.

FLOWERS AND NURSERY PRODUCTS: Maui/Molokai Islands, 1980-84

Commodity	Number sold					Value of sales				
	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984
						1,000 dollars				
Selected items:										
Carnations, cut (000 dozens)	53	53	36	72	69	102	114	80	159	162
Chrysanthemums, pompon (000 bunches)	61	45	52	56	42	65	51	58	61	50
Protea: (000 stems)										
Pincushion	662	436	549	435	[1]471	167	154	187	75	100
Other	210	163	315	525	501	112	135	195	325	337
Carnation heads (Million flowers)	35.7	38.8	32.0	34.0	32.0	1,142	1,291	1,153	1,250	1,065
Potted foliage	NA	NA	NA	NA	NA	[2]	525	640	620	650
All other flowers and nursery products [1]	NA	NA	NA	NA	NA	2,754	1,709	1,612	1,999	2,182
Total						4,342	3,979	3,925	4,489	4,546

NA = Not available.
[1] Only selected items are shown separately. All other cut and lei flowers, potted plants, nursery products, plant rental, etc. for the island are included in the "all other" category.
[2] Included in "all other" category.

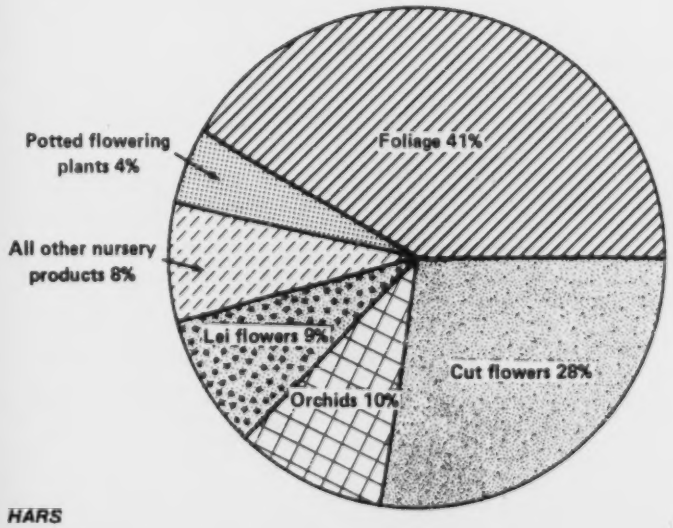
FLOWERS AND NURSERY PRODUCTS: Oahu Island, 1980-84

Commodity	Number sold					Value of sales				
	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984
						1,000 dollars				
Selected items:										
Anthuriums, cut (000 dozens)	82	78	40	75	80	269	246	154	261	276
Ginger, red (000 dozens)	NA	38	46	48	53	[2]	104	147	145	178
Gingers, other	NA	NA	NA	NA	NA	206	10	5	7	6
Chrysanthemums, pompon (000 bunches)	304	332	303	295	315	278	381	336	400	440
Cattleyas (000 flowers)	50	45	50	45	41	49	46	44	40	37
Dendrobium, sprays (000 dozens)	54	65	60	90	162	274	354	349	590	1,001
Plumeria (Million flowers)	15.5	4.0	12.2	10.7	9.4	269	91	159	155	154
Dendrobiums, for lei (Million flowers)	6.4	8.5	5.8	6.5	6.5	169	235	154	196	190
Pikake (000 strands)	144	137	118	120	110	163	174	155	159	160
Cut foliage	NA	NA	NA	NA	NA	248	249	237	195	270
Potted chrysanthemums (000 pots)	41	50	73	73	81	152	150	196	235	265
Potted orchids (000 pots)	310	438	344	368	473	1,296	1,836	1,478	1,711	1,838
Potted poinsettias (000 pots)	90	93	105	109	95	241	254	316	354	277
Potted foliage	NA	NA	NA	NA	NA	3,428	4,173	4,575	6,800	9,100
Unfinished stock and cuttings	NA	NA	NA	NA	NA	740	1,933	795	770	1,020
All other flowers and nursery products [1]	NA	NA	NA	NA	NA	2,860	2,031	3,717	4,921	5,415
Total						10,642	12,267	12,817	16,939	20,627

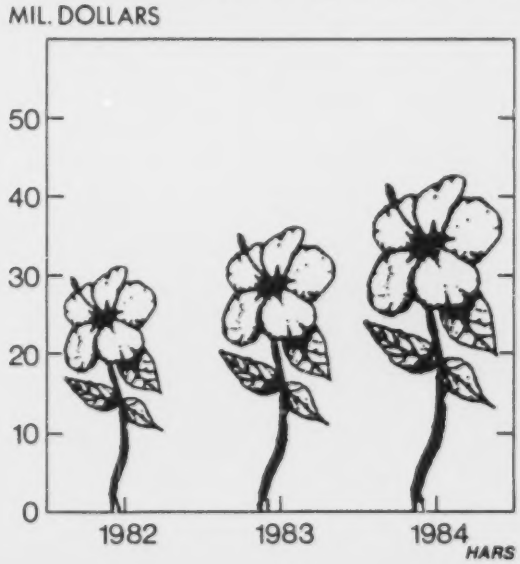
NA = Not available.
[1] Only selected items are shown separately. All other cut and lei flowers, potted plants, nursery products, plant rental, etc. for the island are included in the "all other" category.
[2] Prior to 1981, included with other gingers.

FLOWERS AND NURSERY PRODUCTS:

VALUE OF SALES, STATE OF HAWAII, 1984



VALUE OF SALES, STATE OF HAWAII, 1982-84



FLOWERS AND NURSERY PRODUCTS: Number of farms and growing area, by islands, 1980-84

Year	Hawaii	Kauai	Maui	Oahu	State
			NUMBER OF FARMS - - Unduplicated		
1980.....	300	25	95	220	640
1981.....	330	25	85	240	680
1982.....	310	25	80	235	650
1983.....	320	25	85	250	680
1984.....	**315**	**25**	**80**	**250**	**670**
			GREENHOUSE - - 1,000 square feet [1]		
1980.....	870	32	200	651	1,753
1981.....	1,202	38	280	775	2,295
1982.....	1,270	20	191	918	2,399
1983.....	1,164	15	193	955	2,327
1984.....	**1,195**	**13**	**276**	**930**	**2,414**
			ARTIFICIAL SHADE STRUCTURE - - 1,000 square feet		
1980.....	15,352	69	652	3,494	19,567
1981.....	18,529	63	734	3,742	23,068
1982.....	19,425	182	648	4,871	25,126
1983.....	19,252	103	958	6,016	26,329
1984.....	**19,264**	**178**	**905**	**6,470**	**26,817**
			NATURAL SHADE AREA - - Acres		
1980.....	119	4	--	7	130
1981.....	116	6	--	11	133
1982.....	104	3	--	12	119
1983.....	98	3	--	5	106
1984.....	**83**	**4**	**--**	**5**	**92**
			OPEN FIELD - - Acres		
1980.....	316	16	254	272	858
1981.....	331	19	255	290	895
1982.....	333	38	243	263	877
1983.....	420	24	248	330	1,022
1984.....	**446**	**30**	**250**	**233**	**959**
			TOTAL AREA - - Acres		
1980.....	807	22	274	374	1,477
1981.....	900	27	278	405	1,610
1982.....	912	46	262	408	1,628
1983.....	987	30	274	495	1,786
1984.....	**994**	**38**	**277**	**406**	**1,715**

-- = Less than 500 square feet.
[1] Glass or glass substitute structure.

ANTHURIUMS: Area used for production, by islands, 1980-84

Year	Hawaii	Kauai	Maui	Oahu	State
	1,000 square feet				
	ARTIFICIAL SHADE STRUCTURE				
1980	12,646	30	3	426	13,105
1981	15,300	21	3	386	15,710
1982	15,800	15	3	350	16,168
1983	16,200	22	3	400	16,625
1984	**16,000**	**23**	**23**	**400**	**16,446**
	NATURAL SHADE AREA				
1980	4,879	44	0	44	4,967
1981	4,574	44	0	--	4,618
1982	4,356	--	--	44	4,400
1983	4,250	9	4	20	4,283
1984	**3,500**	**17**	**4**	**--**	**3,521**
	TOTAL ARTIFICIAL AND NATURAL SHADE				
1980	17,525	74	3	470	18,072
1981	19,874	65	3	386	20,328
1982	20,156	15	3	394	20,568
1983	20,450	31	7	420	20,908
1984	**19,500**	**40**	**27**	**400**	**19,967**

-- = Less than 500 square feet.

FLOWERS AND NURSERY PRODUCTS: Area used for production, State of Hawaii, 1984

Area used for	Greenhouse-Glass or glass substitute	Artificial shade-Saran, lath, etc.	Natural shade-Hapu'u, citrus, etc.	Open field
	1,000 square feet		Acres	
Anthuriums	--	16,446	81	--
Dendrobium orchids	400	1,981	--	2
All other orchids [1]	436	420	3	66
Potted foliage	528	5,295	1	149
Protea	--	--	--	119
All other flowers and nursery products	1,050	2,675	7	623
TOTAL	2,414	26,817	92	959

-- = Less than 500 square feet.
[1] Includes vandas.

ANTHURIUMS: Mainland shipments, percent of flowers sold by size, 1980-84

Year	Miniature	Small	Medium	Large	Extra-large
1980.....	22	26	30	21	1
1981.....	20	25	31	22	2
1982.....	19	25	31	23	2
1983.....	19	26	32	20	3
1984.....	**23**	**25**	**30**	**19**	**3**

ANTHURIUMS: Foreign shipments, by destination, 1980-84

Destination	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
	1,000 dozens												
Australia:													
1980....	2.3	2.2	2.3	3.9	6.2	3.9	5.1	4.2	4.0	4.5	2.9	6.3	47.8
1981....	2.5	3.8	3.8	6.3	5.0	4.0	4.0	3.7	3.5	3.9	3.0	4.2	47.7
1982....	2.0	3.8	4.1	7.1	3.0	3.0	4.2	3.7	3.1	2.0	1.7	2.5	40.2
1983....	1.9	3.4	4.1	3.6	1.7	2.7	3.1	2.6	2.6	1.9	2.4	2.6	32.6
1984....	**1.2**	**3.2**	**2.7**	**3.4**	**5.3**	**2.8**	**3.5**	**3.5**	**3.0**	**2.9**	**2.8**	**2.6**	**36.9**
Italy:													
1980....	42.9	36.8	48.9	48.6	50.7	32.3	53.8	38.5	54.4	99.6	49.3	52.2	608.0
1981....	49.2	37.3	37.8	46.8	25.2	24.9	33.8	28.7	39.3	64.1	33.2	40.1	460.4
1982....	33.7	35.2	31.4	48.4	20.4	25.0	33.0	30.0	46.9	62.2	30.8	42.4	439.4
1983....	26.4	28.7	30.4	29.7	18.0	33.5	22.4	32.8	39.9	57.9	32.5	32.2	384.4
1984....	**26.5**	**28.6**	**27.2**	**33.4**	**27.3**	**23.0**	**16.9**	**34.2**	**32.3**	**59.7**	**25.8**	**26.0**	**360.9**
Japan:													
1980....	14.2	8.9	16.1	15.5	12.7	20.4	37.9	49.5	42.4	41.1	34.3	36.3	329.3
1981....	17.9	9.3	14.8	16.7	33.6	55.5	83.3	57.1	54.3	45.4	35.8	44.3	468.0
1982....	19.6	7.7	17.2	14.5	27.6	35.4	53.7	52.0	44.8	40.5	41.1	30.6	384.7
1983....	16.8	3.2	6.8	13.7	22.8	33.4	56.3	55.1	56.0	54.5	48.9	40.1	407.6
1984....	**13.6**	**4.5**	**20.2**	**25.4**	**34.6**	**44.5**	**43.0**	**56.8**	**41.4**	**40.6**	**29.8**	**18.0**	**372.4**
Switzerland:													
1980....	11.0	11.3	9.5	12.8	10.4	8.7	6.7	8.5	8.9	13.5	11.2	14.9	127.4
1981....	10.7	11.9	9.5	15.1	9.1	6.2	3.5	3.9	4.8	10.3	11.5	14.3	110.8
1982....	12.1	14.8	12.3	13.3	7.1	5.9	2.6	5.2	9.0	8.5	11.1	15.5	117.4
1983....	10.1	12.4	14.2	10.5	7.9	5.6	1.2	4.6	5.9	6.8	9.6	9.3	98.1
1984....	**7.4**	**12.8**	**7.6**	**8.8**	**8.3**	**5.1**	**.6**	**3.6**	**5.7**	**7.9**	**6.2**	**8.1**	**82.1**
West Germany:													
1980....	24.5	20.5	25.3	29.3	41.0	26.0	23.0	21.0	23.4	24.7	21.4	19.8	299.9
1981....	21.9	16.2	15.9	22.9	11.2	4.1	3.7	3.0	2.7	3.4	8.7	16.3	130.0
1982....	10.8	9.4	7.6	11.3	5.4	5.1	3.9	2.5	2.3	2.1	1.3	3.1	64.8
1983....	1.6	.8	1.3	2.4	1.2	1.3	.8	--	0.0	1.1	1.1	.7	12.3
1984....	**1.0**	**--**	**.2**	**.7**	**.4**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**2.3**
All other:													
1980....	.5	.5	.3	2.2	1.8	1.6	1.0	.4	.5	2.3	2.9	4.5	18.5
1981....	3.0	3.1	4.1	5.1	3.3	1.8	3.1	2.1	1.7	2.1	2.5	5.4	37.3
1982....	2.6	4.2	4.1	3.6	2.7	2.6	3.5	3.5	3.3	4.1	5.9	10.1	50.2
1983....	9.2	5.0	6.5	4.5	4.6	3.2	3.5	3.0	3.4	6.5	7.2	8.2	64.8
1984....	**6.2**	**4.4**	**4.4**	**2.4**	**3.2**	**2.3**	**3.3**	**2.9**	**3.0**	**2.5**	**3.0**	**2.8**	**40.4**

-- = Negligible.

DENDROBIUM ORCHIDS: Sales and value, 1980-84

Year	Individual blossoms		Cut sprays		Potted plants				Total value
					In bud/bloom		Community pots		
	Number sold	Value	Number sold	Value	Number sold	Value	Number sold	Value	
	Million blooms	1,000 dollars	1,000 dozens	1,000 dollars	1,000 pots	1,000 dollars	1,000 pots	1,000 dollars	1,000 dollars
					STATE[1]				
1980...	6.6	175	70	336	227	1,003	42	186	1,700
1981...	8.8	244	83	431	173	569	79	301	1,545
1982...	6.5	179	78	440	160	622	26	155	1,396
1983...	7.6	234	123	774	201	873	28	159	2,040
1984...	10.5	314	208	1,278	185	709	23	145	2,446
					OAHU				
1980...	6.4	169	54	274	72	259	42	182	884
1981...	8.5	235	65	354	74	266	71	286	1,141
1982...	5.8	154	60	349	86	280	25	148	931
1983...	6.5	196	90	590	120	465	26	147	1,398
1984...	6.5	190	162	1,001	136	476	22	132	1,799

[1] Hawaii, Kauai, and Maui combined in State total to avoid disclosure of individual operations.

DENDROBIUM ORCHIDS: Production area[1], 1984 with 1985 intentions

Type of shade	Used in 1984			Intentions for 1985			
	Cut sprays, blossoms	Potted plants	Total	Cut sprays, blossoms	Potted plants	Total	Percent of 1984
	1,000 square feet						
			STATE[2]				
Glass or glass substitute ..	295	105	400				
Saran	1,574	407	1,981				
Natural shade and open field	31	52	83				
Total.....	1,900	564	2,464	2,647	578	3,225	131
			OAHU				
Glass or glass substitute ..	125	30	155				
Saran	1,385	300	1,685				
Natural shade and open field	18	21	39				
Total.....	1,528	351	1,879	1,820	395	2,215	118

[1] Total area devoted to crop. May include area not yet producing.
[2] Hawaii, Kauai, and Maui combined in State total to avoid disclosure of individual operations.

DENDROBIUM ORCHIDS: Percent of cut sprays sold by quarter

Year	January-March	April-June	July-September	October-December
	Percent			
1980.....	14	23	34	29
1981.....	12	23	37	28
1982.....	11	24	38	27
1983.....	11	24	32	33
1984.....	11	33	32	24

POINSETTIAS: Number of growers, pots sold by size, and value, 1980-84

Year	Growers	Pots sold by size				Value
		4 inches and under	5-6½ inches	All other sizes[1]	Total	
	Number					Dollars
			STATE			
1980.....	30	25,000	95,000	14,000	134,000	410,000
1981.....	25	20,000	109,500	7,000	136,500	430,000
1982.....	26	30,000	111,000	8,000	149,000	474,000
1983.....	25	21,000	120,000	9,000	150,000	513,000
1984.....	**29**	**26,000**	**107,000**	**6,000**	**139,000**	**453,000**
			OAHU			
1980.....	17	[2]	[2]	[2]	90,000	241,000
1981.....	16	[2]	[2]	[2]	93,000	254,000
1982.....	18	[2]	[2]	[2]	105,000	316,000
1983.....	17	[2]	[2]	[2]	109,000	354,000
1984.....	**18**	[2]	[2]	[2]	**95,000**	**277,000**

[1] Includes hanging baskets.
[2] Not shown separately to avoid disclosure of individual operations.

POINSETTIAS: Percent of flowers grown by type of growing area, 1980-84

Year	Saran	Glass or glass substitute	Open field
1980.....	7	49	44
1981.....	28	46	26
1982.....	18	53	29
1983.....	23	44	33
1984.....	**26**	**40**	**34**

POINSETTIAS: Percent of flowers grown by varieties, 1980-84

Year	C-1	V-10	V-14	Others
1980.....	26	24	32	18
1981.....	36	33	10	21
1982.....	32	32	12	24
1983.....	22	48	12	18
1984.....	**16**	**54**	**20**	**10**

POINSETTIAS: 1984 intentions, with comparisons

Year	Grower intentions spring of year	Pots set[1]	Pots sold
	Number		
1980.....	160,000	140,000	134,000
1981.....	152,000	161,000	136,500
1982.....	156,000	170,000	149,000
1983.....	176,000	205,000	150,000
1984.....	**NA**	**210,000**	**139,000**

NA = Not applicable.
[1] Includes small pots eventually used for hanging baskets and counted as only one pot.

FLOWERS AND NURSERY PRODUCTS: Out-of-State sales, State of Hawaii, 1980-84

Commodity	1980	1981	1982	1983	1984
	1,000 dollars [1]				
Anthuriums, cut	6,592	6,237	6,370	7,005	7,050
Red Ginger	[2]	[2]	91	145	240
Protea	235	256	475	505	550
Cattleya Orchids	24	52	117	120	115
Cymbidium Orchids	71	98	175	125	121
Dendrobium Orchids, cut sprays	124	162	190	439	846
Potted orchid plants	1,282	1,319	968	1,531	1,510
Cut foliage	519	400	410	460	670
Potted foliage plants	3,311	5,838	6,912	9,070	12,650
Unfinished potted foliage stock	[2]	[2]	802	1,360	750
All other flowers and nursery products	1,849	1,489	1,399	1,240	1,108
TOTAL	14,082	15,976	17,909	22,000	25,610

[1] Based on F.O.B. island value. Includes both wholesale and retail sales. Does not include sales of cut flowers, lei, etc. purchased within the State and hand carried out.
[2] Not shown separately.

ANTHURIUMS: Mainland and foreign shipments from the Island of Hawaii, 1980-84

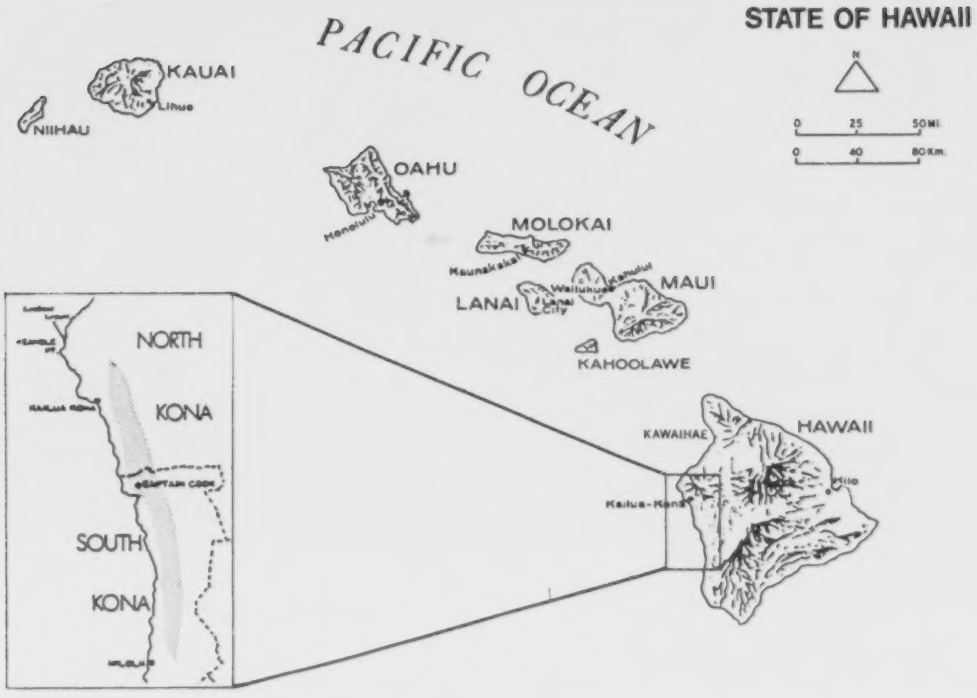
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
	1,000 dozens												
Mainland:													
1980	28.2	35.6	34.2	39.6	41.7	41.9	38.3	40.5	43.2	46.9	40.0	53.3	483.4
1981	32.7	44.9	36.9	45.1	44.0	41.4	42.3	43.4	46.1	45.4	44.2	61.3	527.7
1982	48.7	60.9	44.5	48.6	50.9	43.0	46.6	57.3	55.2	54.5	54.0	82.8	647.0
1983	59.7	73.9	48.5	54.1	54.3	52.3	52.1	56.0	59.1	58.8	64.1	87.4	720.3
1984	**67.0**	**92.6**	**61.8**	**67.6**	**76.4**	**74.8**	**59.2**	**65.9**	**60.9**	**66.4**	**75.9**	**97.9**	**866.4**
Foreign:													
1980	95.4	80.2	102.4	112.3	122.8	92.9	127.5	122.1	133.6	185.7	122.0	134.0	1,430.9
1981	105.2	81.6	85.9	112.9	87.4	96.5	131.4	98.5	106.3	129.2	94.7	124.6	1,254.2
1982	80.8	75.1	76.7	98.2	66.2	77.0	100.9	96.9	109.4	119.4	91.9	104.2	1,096.7
1983	66.0	53.6	63.3	64.3	56.2	79.7	87.3	98.1	107.8	128.7	101.7	93.1	999.8
1984	**55.9**	**53.5**	**62.3**	**74.1**	**79.1**	**77.7**	**67.3**	**101.0**	**85.4**	**113.6**	**67.6**	**57.5**	**895.0**
Total shipments:													
1980	123.6	115.8	136.6	151.9	164.5	134.8	165.8	162.6	176.8	232.6	162.0	187.3	1,914.3
1981	137.9	126.5	122.8	158.0	131.4	137.9	173.7	141.9	152.4	174.6	138.9	185.9	1,781.9
1982	129.5	136.0	121.2	146.8	117.1	120.0	147.5	154.2	164.6	173.9	145.9	187.0	1,743.7
1983	125.7	127.5	111.8	118.4	110.5	132.0	139.4	154.1	166.9	187.5	165.8	180.5	1,720.1
1984	**122.9**	**146.1**	**124.1**	**141.7**	**155.5**	**152.5**	**126.5**	**166.9**	**146.3**	**180.0**	**143.5**	**155.4**	**1,761.4**

DENDROBIUM ORCHIDS: Out-of-State sales, 1980-84

Year	Cut sprays		Potted plants [1]		Total value
	Number	Value	Number	Value	
	Dozens	Dollars	Pots	Dollars	
1980	18,560	123,800	79,980	380,390	504,190
1981	28,600	162,400	68,600	264,000	426,400
1982	34,000	189,600	57,100	266,500	456,100
1983	59,000	439,000	80,700	431,000	870,000
1984	**120,000**	**846,000**	**85,100**	**459,000**	**1,305,000**

[1] Includes community pots.

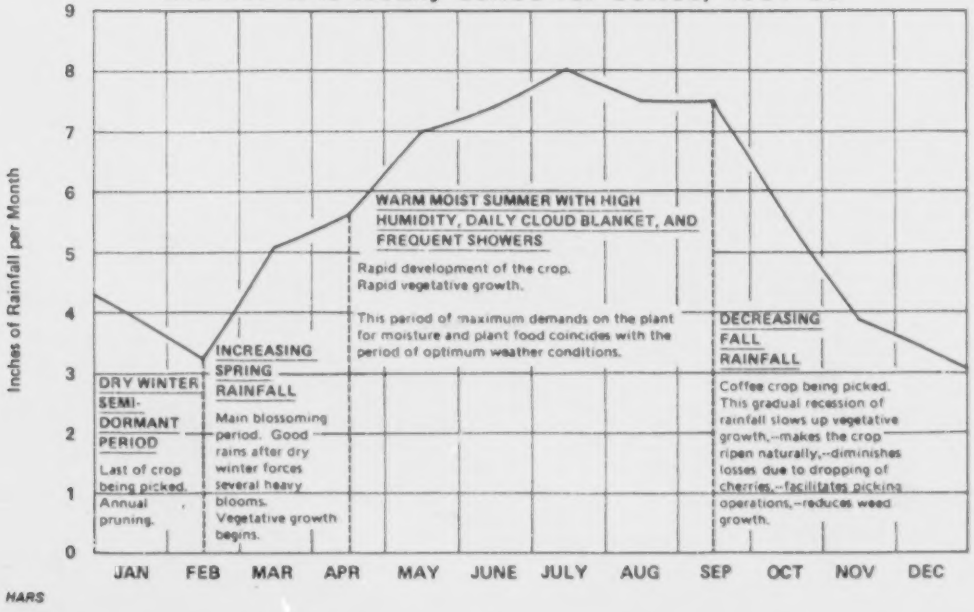
HAWAII'S COFFEE INDUSTRY



HAWAII'S COFFEE INDUSTRY PERKS UP

From a small commercial planting 160 years ago, coffee once existed on all the major Hawaiian islands. It was this State's top diversified crop until economic and cultural factors reduced the size of the industry. Today, the only remaining coffee farms in the U. S. can be found in a two mile wide strip of land that runs parallel to Hawaii island's Kona coastline from approximately 700 to 2,000 feet above sea level. Blessed with an ideal growing climate, Kona produces one of the world's finest coffees. Improved marketing and a strong demand for gourmet coffee has halted the downward trend of the industry. Talk of increased acreages have buoyed hopes that coffee is making a comeback.

Rainfall Distribution at Kainaliu, Kona and how it is ideally suited for Coffee, 1931-83

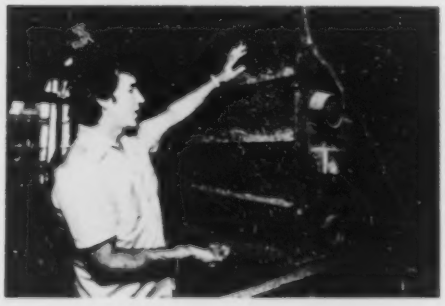

Inches of Rainfall per Month
0
1
2
3
4
5
6
7
8
9
JAN
FEB
MAR
APR
MAY
JUNE
JULY
AUG
SEP
OCT
NOV
DEC
DRY WINTER SEMI-DORMANT PERIOD
Last of crop being picked. Annual pruning.
INCREASING SPRING RAINFALL
Main blossoming period. Good rains after dry winter forces several heavy blooms. Vegetative growth begins.
WARM MOIST SUMMER WITH HIGH HUMIDITY, DAILY CLOUD BLANKET, AND FREQUENT SHOWERS
Rapid development of the crop. Rapid vegetative growth.
This period of maximum demands on the plant for moisture and plant food coincides with the period of optimum weather conditions.
DECREASING FALL RAINFALL
Coffee crop being picked. This gradual recession of rainfall slows up vegetative growth,--makes the crop ripen naturally,--diminishes losses due to dropping of cherries,--facilitates picking operations,--reduces weed growth.

HARS

THE MAKING OF KONA COFFEE

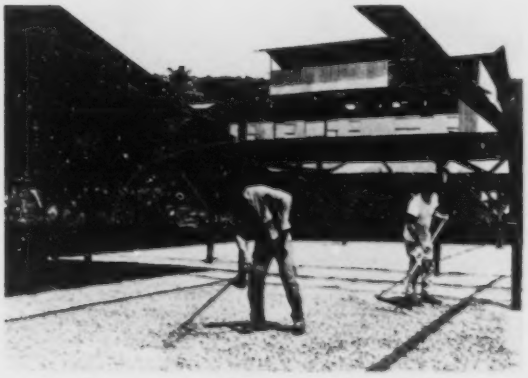
Encouraged by higher returns, farmers have rejuvenated old orchards and begun to plant new fields. A recent technical innovation of the industry is the use of drip irrigation. While Kona's relatively consistent climate is well suited for coffee, the 1983-84 drought has brought out the need for irrigation. It will take approximately 3 years before new plantings bear cherries.

Once picked, the berries are pulped, fermented, and washed so that only the beans and its surrounding skin remain. The washed coffee is commonly called parchment because the remaining skin resembles parchment paper. The wet beans are then dried to achieve a proper level of moisture. While much of today's parchment coffee is mechanically dried, about 30 percent of each season's crop still undergoes sun-drying at some point.

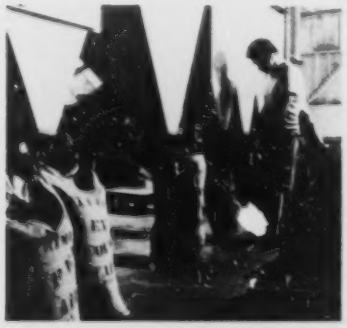


The finished product in the milling process is known as green coffee, the name being derived from the greenish color of the bean at this stage. Once bagged, it is ready to be roasted into one of the world's finest coffees.

Harvesting is the most expensive phase in the production cycle of coffee because intensive labor is required. The planting pattern of old orchards, steep growing terrain, and the fact that the berries do not ripen uniformly make mechanized harvesting difficult to achieve. In addition to its relatively high cost, shortages of labor have periodically occurred during the peak harvesting period. The lack of a readily available labor force, and further research into more efficient methods of harvesting are of primary concern to the industry as it seeks to expand production.

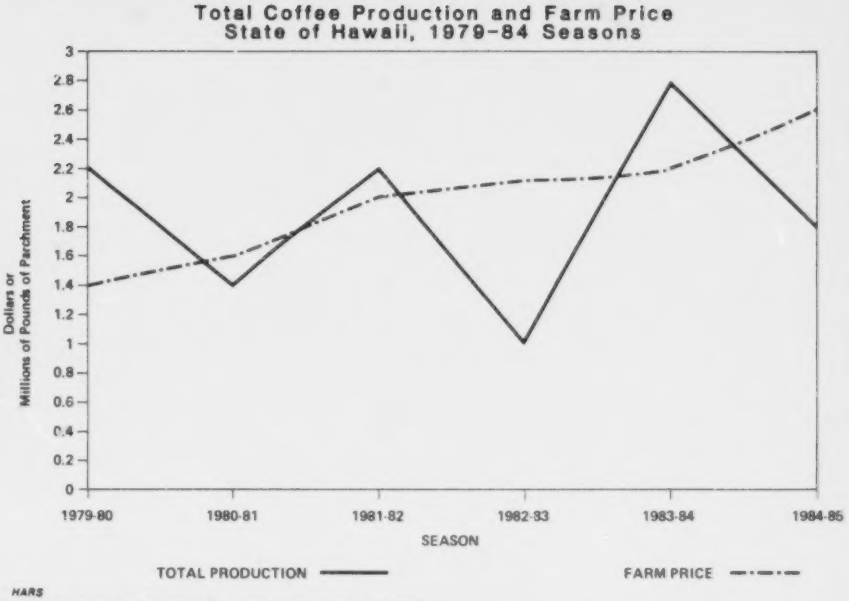


Hulling is necessary after drying to remove the tough parchment skin that surrounds the coffee beans. Later, the beans are sized, graded, and inspected. The State Department of Agriculture is developing standards that will improve the quality of Kona coffee by ensuring only the best beans are marketed.



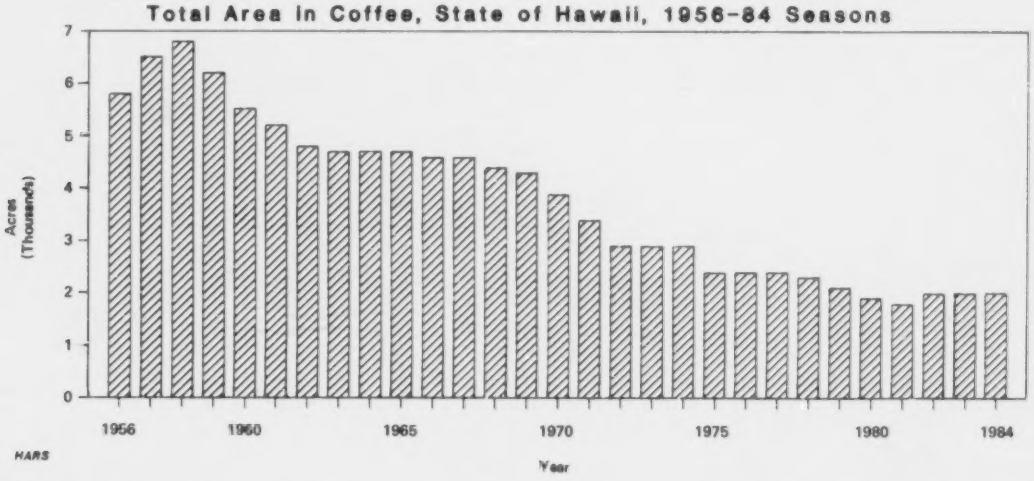
FARM PRICE KEEPS INCREASING

Coffee production has fluctuated through the years due to the alternate bearing nature of the tree and prevailing weather. Farm price, however, has steadily risen over the same period. Marketing strategies to identify Kona coffee with the strong gourmet drink market is mainly responsible for the increased returns. Also fueling this increase is the growing number of coffee processors competing for each season's crop.



DOWNWARD TREND IN ACREAGE HALTS

Area in coffee has steadily declined over the last 30 years. High farm expenses combined with low returns forced many farmers to abandon fields located in marginally producing areas. The downward trend appears to have halted as recent increases in farm price have encouraged farmers to maintain their orchards. Expectations of continued consumer demand for Kona coffee has brought the entry of new farmers and acreages into the industry; hopefully setting the foundation for continued growth.



COFFEE: Number of farms, acreage, yield, marketings, price, and value, State of Hawaii, 1980-84 [1]

Year [2]	Farms	Total acreage in crop	Acreage harvested	Yield per harvest acre	Marketings (parchment)	Farm price (parchment)	Value of sales
	Number	1,000 acres		1,000 pounds		Dollars per pound	1,000 dollars
1980-81...	650	1.9	1.7	0.9	1,440	1.60	2,304
1981-82...	625	1.8	1.7	1.3	2,210	2.00	4,420
1982-83...	620	2.0	1.9	0.5	990	2.15	2,129
1983-84...	610	2.0	1.8	1.6	2,800	2.25	6,300
1984-85...	615	2.0	1.7	1.1	1,800	2.65	4,770

[1] State production all on Island of Hawaii.
[2] Harvesting normally begins in September and extends to the early part of the following year.

TARO: Number of farms, acreage, marketings, price, and value, by islands, 1980-84

Year	Farms	Acreage in crop[1]	Marketings			Farm price	Value of sales
			Fresh	Processed	Total		
	Number	Acres	1,000 pounds			Cents per pound	1,000 dollars
			STATE				
1980...	122	320	410	5,990	6,400	20.0	1,280
1981...	123	340	215	5,885	6,100	21.4	1,305
1982...	127	350	307	6,153	6,460	22.4	1,447
1983...	155	370	346	5,094	5,440	22.6	1,229
1984...	**137**	**370**	**290**	**6,020**	**6,310**	**21.9**	**1,382**
			HAWAII				
1980...	41	30	198	502	700	23.1	162
1981...	40	45	100	350	450	23.1	104
1982...	45	55	221	659	880	22.4	197
1983...	67	65	228	512	740	25.0	185
1984...	**57**	**65**	**180**	**615**	**795**	**25.8**	**205**
			KAUAI				
1980...	50	210	140	4,410	4,550	19.0	865
1981...	50	210	100	4,350	4,450	21.0	934
1982...	49	210	56	4,304	4,360	22.3	972
1983...	54	215	39	3,411	3,450	22.1	762
1984...	**50**	**225**	**40**	**4,310**	**4,350**	**21.1**	**918**
			MAUI/MOLOKAI/OAHU[2]				
1980...	31	80	72	1,078	1,150	22.0	253
1981...	33	85	15	1,185	1,200	22.3	267
1982...	33	85	30	1,190	1,220	22.8	278
1983...	34	90	79	1,171	1,250	22.6	282
1984...	**30**	**80**	**70**	**1,095**	**1,165**	**22.2**	**259**

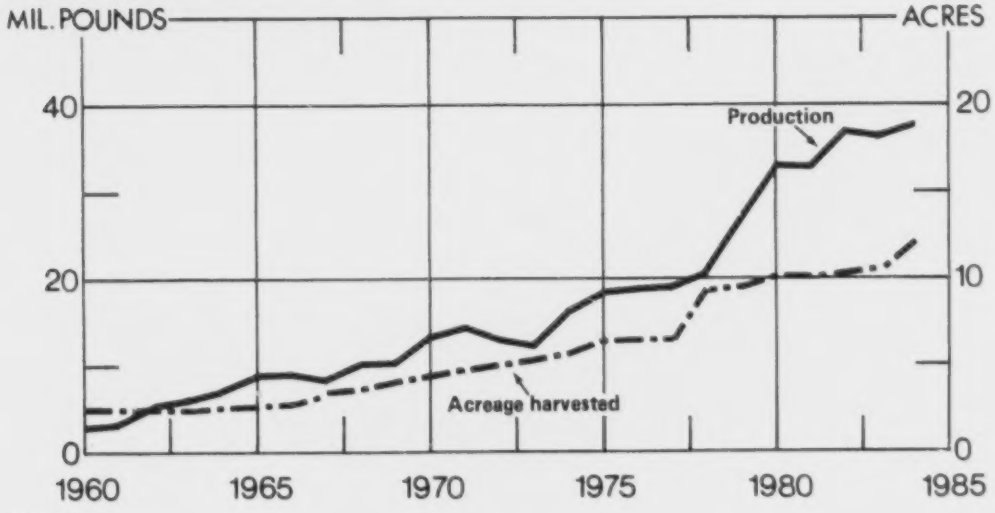
[1] Survey conducted in November each year. Does not include acreage of varieties used primarily for leaf production.
[2] Oahu combined with Maui and Molokai to avoid disclosure of individual operations.

MACADAMIA NUTS: Number of farms, acreage, yield, marketings, price, and value, by islands, 1980-84

Crop year[1]	Farms	Acreage[2]		Yield per acre (bearing)	Marketings (in shell)[3]	Average moisture		Farm price	Value of sales
		In crop	Bearing			Entire crop	Purchases		
	Number	Acres		1,000 pounds		Percent		Cents per pound	1,000 dollars
					STATE[4]				
1980...	475	13,300	10,000	3.3	33,390	20.0	20.7	72.4	24,174
1981...	490	13,800	10,000	3.3	33,360	19.8	16.1	79.3	26,454
1982...	550	15,000	10,200	3.6	36,720	20.5	16.3	73.9	27,136
1983...	600	15,800	10,600	3.4	36,420	18.3	18.6	65.7	23,928
1984...	**605**	**16,900**	**12,000**	**3.1**	**37,700**	**19.2**	**19.7**	**69.2**	**26,088**
					HAWAII				
1980...	470	12,110	9,950	3.2	33,270	NA	NA	72.4	24,071
1981...	485	12,600	9,950	3.3	33,240	NA	NA	79.3	26,355
1982...	545	13,780	10,150	3.6	36,600	NA	NA	73.9	27,047
1983...	555	14,530	10,170	3.6	36,200	NA	NA	65.7	23,783
1984...	**595**	**15,460**	**11,030**	**3.4**	**37,500**	**NA**	**NA**	**69.2**	**25,950**
					KAUAI/MAUI/OAHU[5]				
1980...	5	1,190	50	2.4	120	NA	NA	86.0	103
1981...	5	1,220	50	2.4	120	NA	NA	82.5	99
1982...	5	1,220	50	2.4	120	NA	NA	74.2	89
1983...	5	1,270	430	.5	220	NA	NA	66.1	145
1984...	**10**	**1,440**	**970**	**.2**	**200**	**NA**	**NA**	**69.0**	**138**

NA = Not available.
[1] Year ends June 30 of following year.
[2] At end of year.
[3] Includes home use.
[4] Sum of island estimates may not add to State total due to rounding.
[5] Kauai and Maui combined with Oahu to avoid disclosure of individual operations.

MACADAMIA NUTS: Acreage and Production, State of Hawaii, 1960-84



HARS

PINEAPPLES: Number of farms, acreage, production, disposition, price, and value, State of Hawaii, 1980-84

Year	Farms	Acreage used for crop	Production (fresh weight)	Disposition		Farm price		Value of production (fresh weight)
				Processed (fresh weight)	Fresh market[1]	Processed[2]	Fresh market[3]	
	Number	1,000 acres	1,000 tons			Dollars per ton		Thousand dollars
1980...	18	43.0	657	556	101	76	340	76,596
1981...	18	41.0	636	519	117	85	390	89,745
1982...	18	36.0	670	542	128	82	390	94,364
1983...	18	36.0	722	602	120	88	395	100,376
1984...	18	35.0	600	481	119	88	400	89,928

[1] Beginning 1983 excludes sales of fresh pineapple without tops. Included in processing utilization.
[2] Estimate to reflect value of fresh fruit delivered processing plant door.
[3] Estimate to reflect value at wholesale establishments for local sales and shipper dock for Mainland and foreign sales.

PINEAPPLES: Processor production, fresh sales, and value, State of Hawaii, 1980-84

Year	Processor production[1]				Fresh market sales		
	Canned fruit (24/2½-45 lb. cases)	Canned juice (24/2½-42.5 lb. cases)	Frozen concentrate (24/2½-42.5 lb. cases)	Value[2]	Quantity		Value[5]
				Canned fruit and juices	Local[3]	Shipped out-of-State[4]	
	1,000 cases			Million dollars	1,000 tons		Thousand dollars
1980...	6,940	6,410	215	192.2	27.3	73.7	34,340
1981...	6,830	6,320	200	172.0	25.8	91.1	45,590
1982...	NA	NA	NA	156.1	26.5	101.5	49,920
1983...	NA	NA	NA	171.6	17.7	102.3	47,400
1984...	NA	NA	NA	202.0	18.0	101.0	47,600

[1] Pineapple Growers Association of Hawaii (year beginning June 1 prior to 1979).
[2] Value of canned fruit and juices and byproducts shipped out-of-State and sold within State.
[3] Beginning 1983 excludes sales of fresh pineapple without tops.
[4] Market News Service, Hawaii Department of Agriculture. Includes all destinations.
[5] Value FAS shipping point for outshipments, delivered wholesalers local sales.

PINEAPPLES: Outshipments of fresh pineapples, State of Hawaii, 1980-84

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
	1,000 pounds												
1980.....	9,179	11,748	13,671	14,660	15,386	13,595	13,867	10,655	10,075	12,796	12,338	9,493	147,463
1981.....	13,290	12,411	14,706	18,021	16,906	18,978	22,599	10,053	12,512	15,036	13,931	13,662	182,102
1982.....	15,491	15,416	21,352	19,654	18,195	21,275	20,062	16,086	16,087	11,917	12,859	14,687	203,081
1983.....	15,701	13,419	17,251	16,911	19,142	19,506	19,876	19,685	15,415	16,712	16,619	14,300	204,537
1984.....	16,572	18,450	20,535	18,272	20,267	20,301	17,472	15,885	12,423	15,175	14,030	12,562	201,944

Source of outshipment data: Market News Service, Hawaii Department of Agriculture.

PASSION FRUIT: Number of farms, acreage, quantity processed, price, and value, State of Hawaii, 1980-84

Year	Farms	Cultivated acreage[1]		Quantity processed[2]	Average price	Value of sales[2]
		In crop	Bearing			
	Number	Acres		1,000 pounds	Cents per pound	1,000 dollars
1980...	5	75	55	2,400	10.8	259
1981...	4	70	50	1,470	11.1	163
1982...	9	70	60	2,750	12.1	333
1983...	17	80	35	1,780	10.1	180
1984...	21	100	40	785	12.1	95

[1] At end of year.
[2] Includes wild and cultivated production.

GUAVAS: Total processed, farm production, number of farms, acreage, price, and value, State of Hawaii, 1980-84

Year	Total delivered to processors[1]			Farm production					
	Quantity processed	Average price	Value of sales	Farms	Acreage in crop	Acreage harvested	Production	Farm price	Value of sales
	1,000 pounds	Cents per pound	1,000 dollars	Number	Acres		1,000 pounds	Cents per pound	1,000 dollars
					STATE				
1980.....	9,850	11.0	1,084	108	975	615	7,520	11.5	865
1981.....	7,290	10.8	787	97	935	620	6,520	11.0	717
1982.....	7,140	9.7	693	91	885	585	6,730	9.7	653
1983.....	8,850	8.9	788	117	965	730	7,700	8.8	678
1984.....	7,000	9.8	686	107	875	610	6,740	9.8	661
					HAWAII				
1980.....	6,700	11.2	750	93	495	325	5,420	11.7	634
1981.....	3,560	11.0	392	87	450	330	3,530	11.0	388
1982.....	2,130	9.5	202	81	410	225	2,110	9.5	200
1983.....	3,270	8.4	275	103	460	280	3,250	8.4	273
1984.....	3,630	9.8	356	95	370	250	3,610	9.8	354
					KAUAI/MAUI/MOLOKAI/OAHU[2]				
1980.....	3,150	10.6	334	15	480	290	2,100	11.0	231
1981.....	3,730	10.6	395	10	485	290	2,990	11.0	329
1982.....	5,010	9.8	491	10	475	360	4,620	9.8	453
1983.....	5,580	9.2	513	14	505	450	4,450	9.1	405
1984.....	3,370	9.8	330	12	505	360	3,130	9.8	307

[1] Fruit allocated to island of production not island where processed. Includes wild and cultivated production.
[2] Kauai/Maui/Molokai/Oahu combined to avoid disclosure of individual operations.

GUAVAS: Quantity, price, and value, State of Hawaii, 1980-84

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual total[1]	Average price[2]	Value
	1,000 pounds													Cents per lb.	1,000 dollars
1980...	325	204	263	756	408	449	963	2,091	2,333	1,558	341	159	9,850	11.0	1,084
1981...	222	263	389	671	791	398	617	1,012	1,355	805	607	160	7,290	10.8	787
1982...	490	1,010	160	465	210	385	575	990	1,175	860	485	335	7,140	9.7	693
1983...	260	180	135	170	105	70	825	1,135	1,450	2,270	1,530	720	8,850	8.9	788
1984...	325	355	345	365	530	570	780	1,165	775	645	595	550	7,000	9.8	686

[1] Sum of monthly estimates may not add to annual total due to rounding.
[2] Equivalent F.O.B. plant, island of production. Prices for guavas are averages for wild and cultivated fruit.

BANANAS: Number of farms, acreage, yield, production, price, and value, by islands, 1980-84

Year	Farms	Acreage		Yield per acre (harvested)	Production	Farm price	Value of sales
		In crop[1]	Harvested				
	Number	Acres		1,000 pounds		Cents per pound	1,000 dollars
				STATE[2]			
1980...	159	730	580	7.9	4,600	23.9	1,099
1981...	152	760	650	9.2	6,000	25.7	1,542
1982...	179	940	720	8.0	5,750	28.6	1,645
1983...	183	1,100	860	5.2	4,470	31.2	1,395
1984...	**180**	**990**	**870**	**10.2**	**8,900**	**30.0**	**2,670**
				HAWAII			
1980...	25	160	105	14.9	1,560	18.9	295
1981...	17	140	130	16.1	2,090	20.0	418
1982...	29	200	130	19.3	2,510	23.1	580
1983...	31	365	205	12.6	2,580	26.4	681
1984...	**32**	**330**	**305**	**10.3**	**3,140**	**28.3**	**889**
				KAUAI			
1980...	24	70	45	17.1	770	21.6	166
1981...	26	75	60	16.7	1,000	23.4	234
1982...	32	110	50	19.1	954	29.1	278
1983...	33	115	95	4.9	470	31.0	146
1984...	**35**	**135**	**110**	**18.9**	**2,080**	**23.6**	**491**
				MAUI/MOLOKAI			
1980...	12	30	25	7.6	190	24.7	47
1981...	15	55	35	5.7	200	24.8	50
1982...	18	90	70	3.4	241	26.8	65
1983...	21	80	65	4.6	300	25.8	77
1984...	**20**	**75**	**65**	**8.2**	**530**	**27.7**	**147**
				OAHU			
1980...	98	470	405	5.1	2,080	28.4	591
1981...	94	490	425	6.4	2,710	31.0	840
1982...	100	540	470	4.4	2,045	35.3	722
1983...	98	540	495	2.3	1,120	43.8	491
1984...	**93**	**450**	**390**	**8.1**	**3,150**	**36.3**	**1,143**

[1] As of February following year, i.e. acreage data shown for 1984 is as of February 1, 1985.
[2] Island totals may not add to State totals due to rounding.

BANANAS: Acreage by variety, State of Hawaii, February 1, 1985

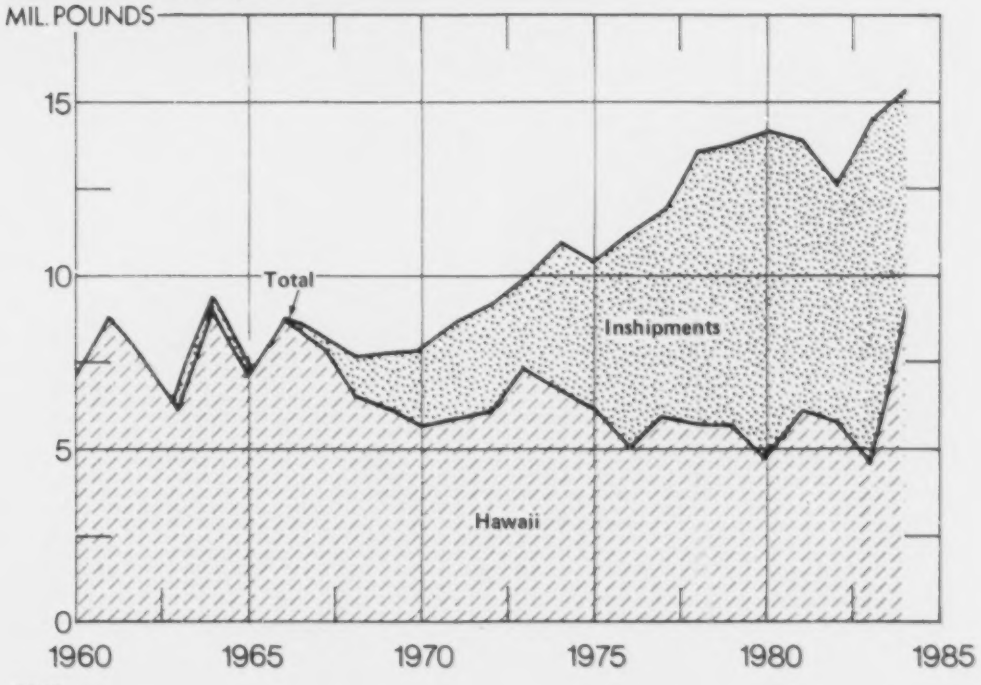
Island	Variety					
	Brazilian (Apple)	Bluefields (Gros Michel)	Cavendish			Others[2]
			Chinese	Williams Hybrid	Robusta[1]	
Hawaii....	5	15	*	230	70	10
Kauai.....	25	15	*	95	0	0
Maui/ Molokai..	20	30	5	15	5	0
Oahu.....	315	*	35	90	0	10
Total...	365	60	40	430	75	20

* = Less than 5 acres. [1] Includes Taiwan. [2] Includes cooking and Lady Finger.

BANANAS: Monthly production, total acreage in crop, and total acreage harvested, by varieties, and price, State of Hawaii, 1980-84

Year	Production													Acreage	
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average	In crop	Harvested
	1,000 pounds													Acres	
BRAZILIAN (APPLE)															
1980. . .	139	86	119	103	63	61	81	102	122	125	127	142	1,270	300	280
1981. . .	127	156	193	146	104	106	116	118	142	164	130	128	1,630	340	305
1982. . .	104	115	107	93	91	80	95	131	159	131	172	101	1,379	415	345
1983. . .	44	30	25	24	21	23	29	43	49	62	80	110	540	425	380
1984. . .	**139**	**183**	**276**	**266**	**204**	**177**	**186**	**170**	**172**	**209**	**139**	**89**	**2,210**	**365**	**305**
BLUEFIELDS (GROS MICHEL)															
1980. . .	52	35	28	21	17	18	34	41	40	58	47	49	440	80	55
1981. . .	44	39	36	40	41	44	49	56	60	60	54	57	580	60	50
1982. . .	34	32	29	30	29	36	36	43	64	60	54	37	484	65	55
1983. . .	30	25	26	27	24	27	27	24	26	29	35	40	340	80	60
1984. . .	**38**	**43**	**40**	**29**	**41**	**37**	**55**	**44**	**41**	**45**	**44**	**33**	**490**	**60**	**55**
CAVENDISH (CHINESE, ROBUSTA, AND WILLIAMS HYBRID)															
1980. . .	271	203	169	163	134	155	252	258	255	315	307	408	2,890	345	240
1981. . .	428	351	323	220	252	283	288	277	292	373	349	354	3,790	355	290
1982. . .	303	293	274	251	274	289	319	348	402	423	386	325	3,887	450	315
1983. . .	323	324	299	204	147	172	232	317	272	318	452	530	3,590	585	415
1984. . .	**456**	**456**	**536**	**381**	**514**	**474**	**485**	**499**	**514**	**695**	**638**	**552**	**6,200**	**545**	**495**
FARM PRICE FOR FRESH MARKET															
	Cents per pound														
1980. . .	22.3	24.1	25.9	24.9	24.4	24.5	24.0	24.4	23.8	23.4	23.8	22.9	23.9		
1981. . .	23.8	25.2	26.4	26.7	25.2	26.4	26.3	26.7	25.9	25.5	25.4	25.5	25.7		
1982. . .	25.2	26.5	27.0	27.0	26.2	26.2	28.1	30.5	30.3	30.0	31.6	30.5	28.6		
1983. . .	29.8	28.4	27.7	28.7	28.6	29.8	31.9	33.8	33.5	32.9	32.3	32.7	31.2		
1984. . .	**31.5**	**31.3**	**30.7**	**30.0**	**29.3**	**29.5**	**29.3**	**29.3**	**29.7**	**30.3**	**29.0**	**29.9**	**30.0**		

MARKET SUPPLY: Fresh Market Bananas, State of Hawaii, 1960-84



HARS

PAPAYAS: Number of farms, acreage, yield, utilization, price, and value, by islands, 1980-84[1]

Year	Farms[2]	Acreage harvested[2]	Yield per acre[3]	Utilized production	Utilization		Price per pound			Value of utilized production
					Fresh	Processed	Fresh	Processed[4]	All	
	Number	Acres	1,000 pounds				Cents			1,000 dollars
					STATE					
1980...	197	1,950	25.1	48,916	45,360	3,556	21.7	3.4	20.4	9,964
1981...	211	2,110	31.5	66,390	58,170	8,220	20.8	3.1	18.7	12,413
1982...	214	2,170	24.3	52,750	44,770	7,980	25.1	3.1	21.8	11,484
1983...	227	2,120	29.0	61,400	46,300	15,100	23.6	4.4	18.9	11,591
1984...	**306**	**2,590**	**31.1**	**80,500**	**67,000**	**13,500**	**13.1**	**3.1**	**11.4**	**9,196**
					HAWAII					
1980...	108	1,665	24.5	41,255	37,947	3,308	21.1		19.7	8,127
1981...	116	1,785	32.1	57,320	49,135	8,185	20.4		18.7	10,278
1982...	123	1,950	24.6	47,900	39,940	7,960	24.8		21.2	10,152
1983...	140	2,005	29.4	59,040	44,050	14,990	23.3		18.5	10,912
1984...	**219**	**2,165**	**30.6**	**66,140**	**52,680**	**13,460**	**13.2**		**11.4**	**7,531**
					KAUAI					
1980...	37	200	30.5	6,096	5,967	129	[5]20.8		[5]20.5	[5]1,286
1981...	42	245	29.4	7,204	7,169	35	[5]21.2		[5]21.5	[5]1,567
1982...	42	130	24.8	3,220	3,200	20	[5]23.8		[5]23.7	[5]889
1983...	41	25	31.8	795	780	15	[5]25.3		[5]25.1	[5]350
1984...	**42**	**320**	**36.1**	**11,555**	**11,555**	**0**	**[5]10.3**		**[5]10.3**	**[5]1,236**
					MAUI/MOLOKAI					
1980...	4	10	17.6	176	176	0	[5]		[5]	[5]
1981...	4	10	21.3	213	213	0	[5]		[5]	[5]
1982...	4	20	26.5	530	530	0	[5]		[5]	[5]
1983...	5	25	24.0	600	600	0	[5]		[5]	[5]
1984...	**5**	**20**	**21.1**	**420**	**420**	**0**	[5]		[5]	[5]
					OAHU					
1980...	48	75	18.5	1,389	1,270	119	44.7		41.1	571
1981...	49	70	23.6	1,653	1,653	0	33.8		33.8	559
1982...	45	70	15.7	1,100	1,100	0	39.7		39.7	437
1983...	41	70	13.8	965	870	95	37.0		34.1	329
1984...	**40**	**85**	**28.0**	**2,385**	**2,345**	**40**	**18.2**		**18.0**	**429**

[1] Sum of island estimates may not add to State total due to rounding.
[2] Average of monthly estimates.
[3] Utilized production divided by acreage harvested.
[4] Island data not shown separately to avoid disclosure of individual operations.
[5] Maui/Molokai combined with Kauai to avoid disclosure of individual operations.

PAPAYAS: Acreage, utilization, price, and outshipments, State of Hawaii, 1980-84

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
	Area harvested – Acres[1]												
1980..	1,785	1,915	1,935	2,005	2,040	2,050	1,905	1,930	1,930	1,945	1,985	2,005	1,960
1981..	2,105	1,975	1,960	2,040	2,045	2,060	2,150	2,140	2,150	2,240	2,235	2,235	2,110
1982..	2,255	2,280	2,285	2,170	2,160	2,125	2,070	2,130	2,115	2,130	2,140	2,190	2,170
1983..	2,025	2,050	2,035	2,095	2,090	2,070	2,095	2,095	2,095	2,220	2,195	2,375	2,120
1984..	2,330	2,370	2,430	2,455	2,570	2,630	2,710	2,800	2,690	2,635	2,725	2,765	2,590
	Utilization (fresh and processed) -- 1,000 pounds												
1980..	3,389	2,385	2,116	3,043	4,278	4,508	4,527	3,722	5,218	5,665	4,555	5,510	48,916
1981..	4,626	4,532	5,607	5,853	5,671	6,893	5,848	5,075	6,405	5,973	5,335	4,572	66,390
1982..	4,151	4,369	4,852	4,397	4,114	4,346	4,320	4,049	4,005	4,615	4,499	5,033	52,750
1983..	4,701	3,341	2,607	2,991	6,019	5,820	6,616	5,310	2,732	4,987	8,556	7,720	61,400
1984..	6,181	5,715	7,128	8,815	7,732	5,904	6,822	8,288	5,598	6,267	7,349	4,701	80,500
	Total fresh papaya utilization -- 1,000 pounds												
1980..	2,730	2,163	1,921	2,810	4,090	4,012	4,016	3,497	5,009	5,301	4,504	5,307	45,360
1981..	4,258	4,075	4,920	5,210	4,950	5,961	5,348	4,300	5,854	4,922	4,800	3,572	58,170
1982..	3,379	3,716	4,515	3,993	3,534	3,650	3,699	3,284	3,406	3,877	3,654	4,063	44,770
1983..	3,565	2,806	2,226	2,533	4,744	4,702	4,518	3,447	2,070	3,897	6,124	5,668	46,300
1984..	5,100	5,039	6,049	6,790	5,977	5,094	5,472	7,478	4,788	5,458	5,999	3,756	67,000
	Intrastate fresh papaya utilization -- 1,000 pounds												
1980..	781	739	592	811	1,071	1,062	1,004	952	1,331	1,203	1,203	1,276	12,025
1981..	1,107	1,089	1,258	1,187	1,043	1,232	984	788	1,056	1,241	1,160	878	13,023
1982..	825	1,161	1,105	840	811	830	914	928	881	1,021	984	1,160	11,460
1983..	995	793	565	650	840	875	863	847	473	964	1,463	1,332	10,660
1984..	1,155	1,254	1,599	1,248	1,422	1,381	1,225	1,496	937	952	1,557	414	14,640
	Outshipments of fresh papayas -- 1,000 pounds												
1980..	1,949	1,424	1,329	1,999	3,019	2,950	3,012	2,545	3,678	4,098	3,301	4,031	33,335
1981..	3,151	2,986	3,662	4,023	3,907	4,729	4,364	3,512	4,798	3,681	3,640	2,694	45,147
1982..	2,554	2,555	3,410	3,153	2,723	2,820	2,785	2,356	2,525	2,856	2,670	2,903	33,310
1983..	2,570	2,013	1,661	1,883	3,904	3,827	3,655	2,600	1,597	2,933	4,661	4,336	35,640
1984..	3,945	3,785	4,450	5,542	4,555	3,713	4,247	5,982	3,851	4,506	4,442	3,342	52,360
	Farm price for fresh market sales (to all markets) -- Cents per pound												
1980..	25.2	32.8	37.4	38.1	25.7	24.5	20.2	20.9	17.1	13.6	16.3	14.6	21.7
1981..	17.6	25.1	25.1	23.8	23.8	24.7	21.0	24.1	20.7	13.2	13.6	15.5	20.8
1982..	20.4	24.7	22.3	23.9	29.8	37.5	32.2	25.3	25.7	20.4	21.9	19.0	25.1
1983..	20.7	31.1	41.0	54.9	38.7	17.2	20.7	15.7	31.0	27.3	11.5	8.2	23.6
1984..	12.0	16.4	15.3	11.7	15.7	12.7	12.7	9.6	11.8	13.5	12.8	12.9	13.1

[1] Total is average of monthly data.

AVOCADOS: Number of farms, acreage, yield, production, price, and value, State of Hawaii, 1980-84

Year	Farms	Acreage[1]		Yield per acre (bearing)	Production	Farm price	Value of sales
		In crop	Bearing				
	Number	Acres		1,000 pounds		Cents per pound	1,000 dollars
1980....	145	350	200	7.6	1,510	24.5	370
1981....	155	370	200	6.0	1,200	26.4	317
1982....	160	440	240	6.7	1,600	22.5	360
1983....	160	450	250	4.7	1,170	26.1	305
1984....	165	505	270	4.3	1,150	25.9	298

[1] At end of year.

ORANGES: Number of farms, acreage, yield, production, price, and value, State of Hawaii, 1980-84

Year	Farms	Acreage bearing[1]	Yield per acre	Production	Farm price	Value of sales
	Number	Acres	1,000 pounds		Cents per pound	1,000 dollars
1980....	28	30	4.7	140	18.1	25
1981....	24	98	2.2	220	21.8	48
1982....	23	120	2.9	350	25.0	88
1983....	15	105	5.6	590	20.8	123
1984....	15	110	5.8	640	26.6	170

[1] At end of year.

TANGERINES: Number of farms, acreage, yield, production, price, and value, State of Hawaii, 1980-84

Year	Farms	Acreage bearing[1]	Yield per acre	Production	Farm price	Value of sales
	Number	Acres	1,000 pounds		Cents per pound	1,000 dollars
1980....	22	28	3.6	100	23.3	23
1981....	20	28	3.6	100	29.3	29
1982....	20	25	4.4	110	26.0	29
1983....	12	20	3.5	70	29.3	21
1984....	13	22	4.5	100	26.2	26

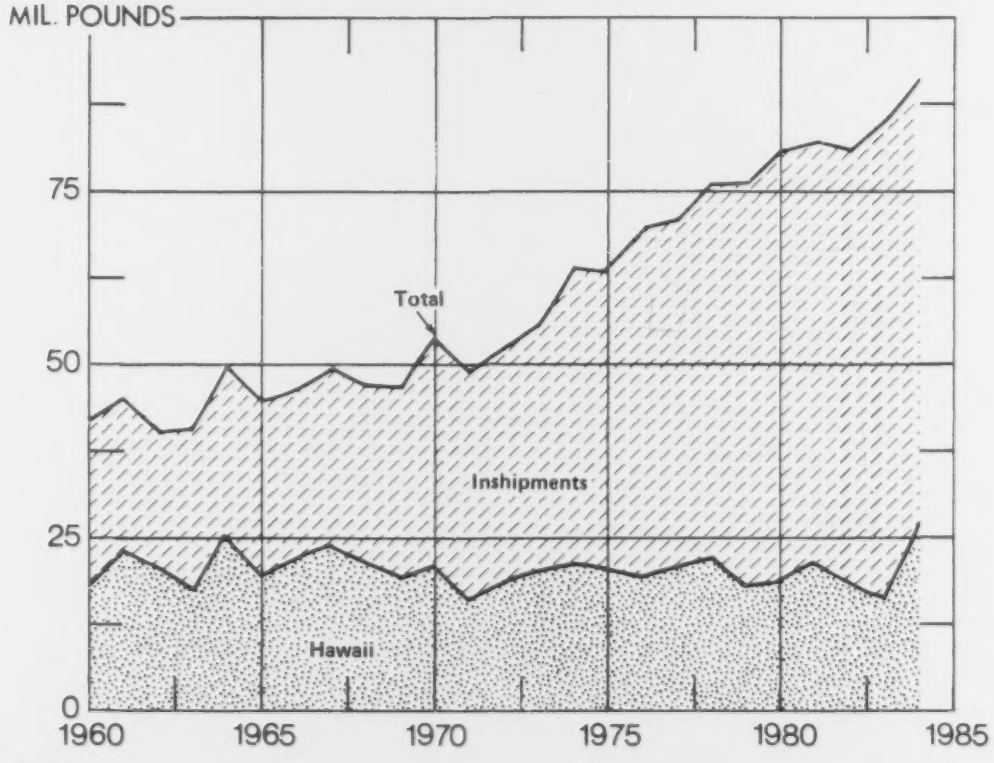
[1] At end of year.

MARKET SUPPLY: Fresh market fruits, State of Hawaii, 1980-84[1]

Commodity		1980	1981	1982	1983	1984
		1,000 pounds				
Apples:	Inshipments	12,700	12,878	11,977	13,123	12,997
Avocados:	Inshipments	283	559	439	634	820
	Hawaii	1,510	1,200	1,600	1,170	1,150
Bananas:	Inshipments	9,528	7,910	6,916	10,027	6,472
	Hawaii	4,600	6,000	5,750	4,470	8,900
Grapefruit:	Inshipments	3,145	2,757	2,997	2,971	2,461
Grapes:	Inshipments	4,208	4,459	5,599	5,516	6,096
Lemons:	Inshipments	2,771	3,065	3,030	3,046	3,459
Nectarines:	Inshipments	1,744	1,739	1,893	1,830	2,044
Oranges:	Inshipments	18,987	17,748	18,096	18,013	17,413
	Hawaii	140	220	350	590	640
Papayas:	Hawaii[2]	12,025	13,023	11,460	10,660	15,885
Pears:	Inshipments	2,581	3,072	3,741	3,657	4,053
Tangerines:	Inshipments	1,169	762	592	1,519	633
	Hawaii	100	100	110	70	100
All other fruits:	Inshipments	4,376	4,911	4,373	5,135	6,558
	Hawaii	285	340	370	310	350
Unspecified fruits:	Inshipments[3]	434	1,696	2,072	1,805	1,312
Total:	Inshipments	61,926	61,556	61,725	67,276	64,318
	Hawaii	18,660	20,883	19,640	17,270	27,025
	All	80,586	82,439	81,365	84,546	91,343

[1] Excludes pineapples, guavas, papayas, and passion fruit used for processing, and quantities shipped out-of-State. [2] Fresh intrastate sales only. Excludes mainland and foreign fresh sales. [3] Proration of shipments of unspecified mixed fruits destined for outlying islands.
Source of inshipment data: Market News Service, Hawaii Department of Agriculture.

MARKET SUPPLY: Fresh Market Fruits, State of Hawaii, 1960-84



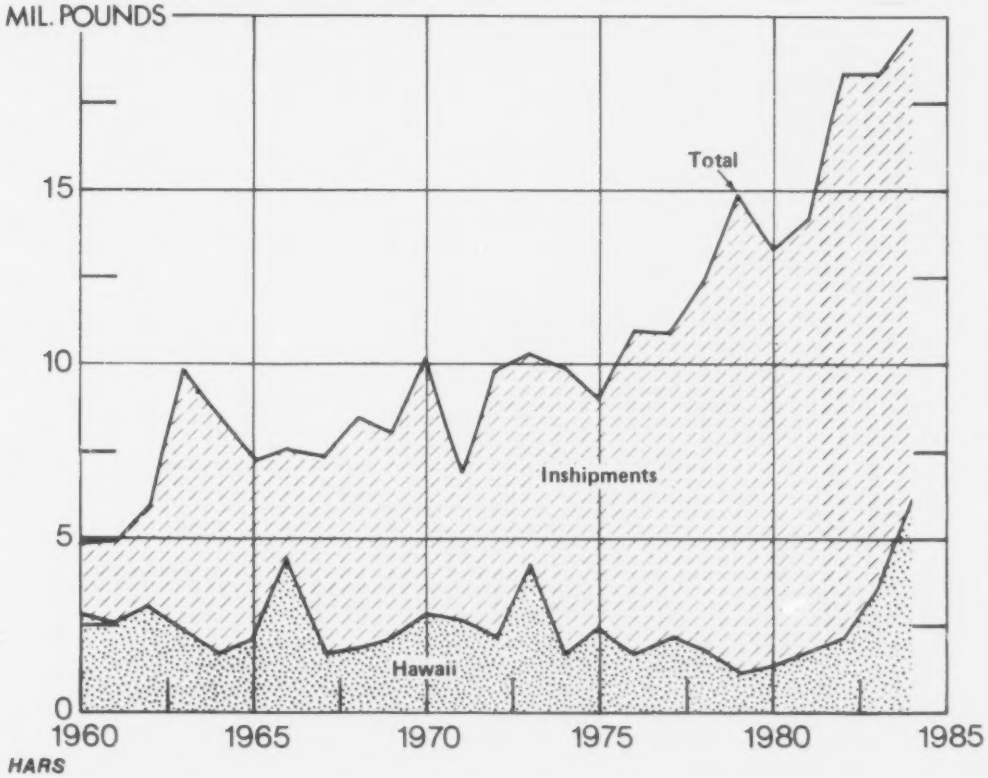
HARS

MARKET SUPPLY: Fresh market melons, State of Hawaii, 1980-84

Commodity		1980	1981	1982	1983	1984
		1,000 pounds				
Cantaloupes:	Inshipments	3,563	3,703	4,161	4,717	5,056
	Hawaii	--	--	[1]	[1]	[1]
Honeydew melons:	Inshipments	2,550	2,727	3,048	3,181	3,280
	Hawaii	--	--	[1]	[1]	[1]
Watermelons:	Inshipments	5,362	5,393	7,960	5,910	4,466
	Hawaii	1,350	1,610	2,200	3,860	6,090
Other melons:	Inshipments	324	351	416	329	442
	Hawaii	--	--	25	10	15
Unspecified melons:	Inshipments[2]	95	371	453	395	287
Total:	Inshipments	11,894	12,545	16,038	14,532	13,531
	Hawaii	1,350	1,610	2,225	3,870	6,105
	All	13,244	14,155	18,263	18,402	19,636

-- = Negligible.
[1] Data included with other melons.
[2] Proration of shipments of unspecified mixed melons destined for outlying islands.
Source of inshipment data: Market News Service, Hawaii Department of Agriculture.

MARKET SUPPLY: Fresh Market Melons, State of Hawaii, 1960-84



MARKET SUPPLY: Fresh market vegetables, State of Hawaii, 1980-84

Commodity	1980	1981	1982	1983	1984
			1,000 pounds		
Beans, snap: Inshipments	292	183	235	111	72
Hawaii	1,100	1,300	995	1,360	1,390
Bittermelon: Inshipments	1	1	7	1	0
Hawaii	220	290	185	260	330
Broccoli: Inshipments	3,092	3,130	3,694	3,620	3,832
Hawaii	370	500	570	680	660
Burdock: Inshipments	0	0	0	3	2
Hawaii	570	640	560	790	820
Cabbage, Chinese: Inshipments	360	300	193	5	55
Hawaii [1]	5,360	4,970	6,120	7,100	6,520
Cabbage, head: Inshipments	646	1,035	596	69	325
Hawaii	13,600	12,800	13,800	15,000	13,190
Cabbage, mustard: Inshipments	64	104	76	42	24
Hawaii	1,330	1,520	1,170	1,650	1,770
Carrots: Inshipments	7,716	7,571	8,301	8,304	8,488
Hawaii	310	230	190	150	220
Cauliflower: Inshipments	961	1,058	1,190	1,214	1,308
Hawaii	420	450	350	375	410
Celery: Inshipments	4,852	4,852	4,840	3,882	3,620
Hawaii	2,880	2,820	3,150	3,960	4,050
Corn, sweet: Inshipments	0	16	369	251	248
Hawaii	950	1,050	560	880	1,300
Cucumbers: Inshipments	1,360	1,544	2,094	1,550	1,516
Hawaii	4,600	5,000	4,350	5,200	4,870
Daikon: Inshipments	0	0	6	1	0
Hawaii [1]	2,340	1,990	2,140	2,400	2,390
Dasheen: Inshipments	0	12	6	4	7
Hawaii	340	200	330	450	240
Eggplant: Inshipments	143	81	263	139	64
Hawaii	1,540	1,580	1,130	1,480	1,380
Ginger root: Inshipments	376	480	490	173	82
Hawaii	1,610	2,860	3,630	5,140	5,050
Lettuce: Inshipments	13,687	12,584	13,956	11,573	12,760
Hawaii	9,900	10,200	9,400	12,200	10,200
Lotus root: Inshipments				4	1
Hawaii	190	180	200	185	180
Onions, dry: Inshipments	13,020	12,186	14,051	13,260	14,463
Hawaii	1,150	1,980	1,350	2,280	2,660
Onions, green: Inshipments	585	509	564	207	191
Hawaii	900	740	800	1,090	1,240
Parsley, American: Inshipments	17	20	136	37	21
Hawaii	250	280	260	330	415
Peas, Chinese: Inshipments	189	156	199	279	328
Hawaii	70	70	50	80	80
Peppers, green: Inshipments	1,913	1,683	2,020	1,789	1,836
Hawaii	620	760	820	1,190	1,460
Potatoes: Inshipments [2]	36,527	36,648	39,292	37,653	40,741
Hawaii	--	--	--	--	--
Pumpkins: Inshipments	227	295	342	500	519
Hawaii	295	330	310	340	330
Radish: Inshipments	1	7	22	10	10
Hawaii	295	240	270	330	300
Romaine: Inshipments	746	617	965	742	1,015
Hawaii	2,170	2,320	2,130	2,620	2,320

See footnotes at end of table.

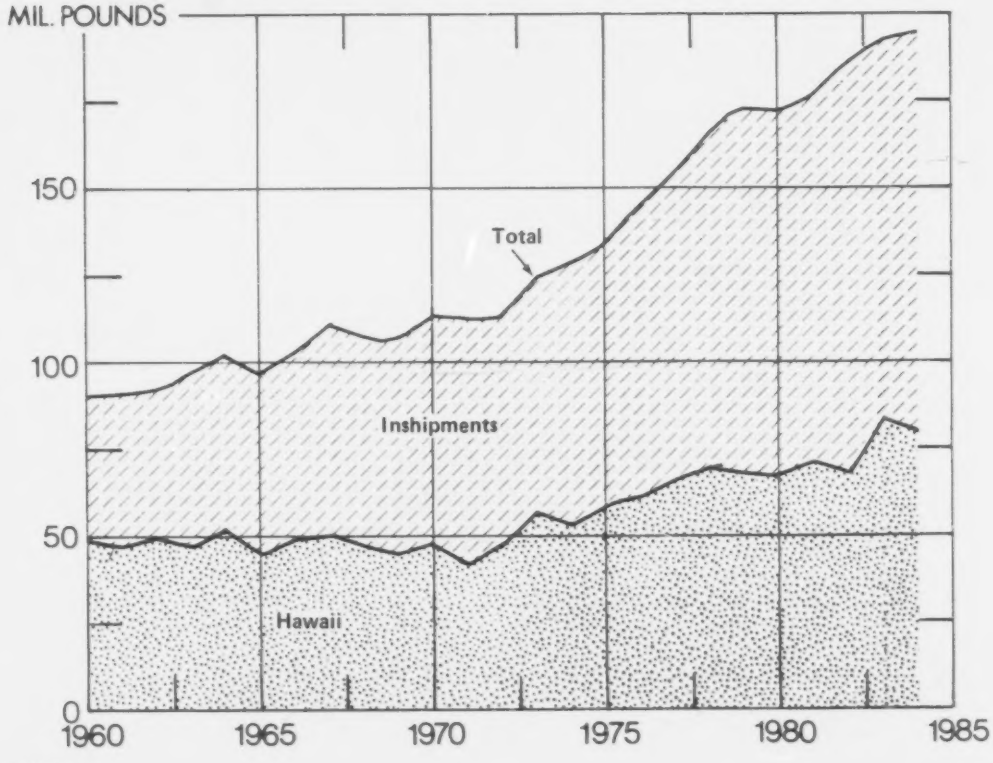
Continued

MARKET SUPPLY: Fresh market vegetables, State of Hawaii, 1980-84 -- Continued

Commodity		1980	1981	1982	1983	1984
		1,000 pounds				
Squash, Italian:	Inshipments	1,221	1,203	1,685	1,327	1,030
	Hawaii	300	540	390	740	960
Squash, Oriental:	Inshipments	4	14	70	69	48
	Hawaii	730	770	445	555	650
Sweetpotatoes:	Inshipments	767	604	616	633	614
	Hawaii	1,300	1,250	1,530	1,860	1,720
Taro:	Inshipments	375	905	980	793	677
	Hawaii [1]	520	215	307	346	290
Tomatoes:	Inshipments	8,114	6,744	8,454	8,195	9,434
	Hawaii	7,700	8,300	7,800	8,700	7,700
Watercress:	Inshipments	0	177	130	8	6
	Hawaii	1,420	1,130	850	1,300	1,400
All other vegetables:	Inshipments	7,331	7,101	7,573	7,428	8,671
	Hawaii	1,960	2,010	2,060	2,460	2,460
Unspecified vegetables:	Inshipments [3]	827	3,232	3,951	3,440	2,500
Total:	Inshipments	105,414	105,052	117,366	107,316	114,508
	Hawaii	67,310	69,515	68,202	83,481	78,955
	All	172,724	174,567	185,568	190,797	193,463

-- = Negligible. [1] Fresh market only. [2] For processing and fresh market. (Potato production for Hawaii included with all other vegetables for Hawaii to avoid disclosure.) [3] Proration of shipments of unspecified mixed vegetables destined for outlying islands.
Source of inshipment data: Market News Service, Hawaii Department of Agriculture.

MARKET SUPPLY: Fresh Market Vegetables, State of Hawaii, 1960-84



HARS

SNAP BEANS: Acreage, yield, production, price, and value, by islands, 1980-84

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE[1]		
1980...	130	8.5	1,100	73.8	812
1981...	130	10.0	1,300	76.1	989
1982...	130	7.7	995	80.0	796
1983...	185	7.4	1,360	62.8	854
1984...	**170**	**8.2**	**1,390**	**66.0**	**917**
			HAWAII/KAUAI[2]		
1980...	20	10.5	210	61.1	128
1981...	20	11.5	230	64.8	149
1982...	20	9.0	180	73.0	131
1983...	30	6.0	180	64.9	117
1984...	**20**	**6.8**	**135**	**67.0**	**90**
			MAUI/MOLOKAI		
1980...	85	7.4	630	78.4	494
1981...	80	8.2	660	79.0	521
1982...	80	7.0	560	79.3	444
1983...	105	7.3	770	60.3	464
1984...	**110**	**8.4**	**925**	**65.2**	**603**
			OAHU		
1980...	25	10.4	260	72.9	190
1981...	30	13.7	410	77.8	319
1982...	30	8.5	255	86.5	221
1983...	50	8.2	410	66.7	273
1984...	**40**	**8.3**	**330**	**67.8**	**224**

[1] Sum of island estimates may not add to State total due to rounding.
[2] Kauai combined with Hawaii to avoid disclosure of individual operations.

SNAP BEANS: Acreage, production, and price, State of Hawaii, 1980-84

Month	Acreage harvested[1]					Production[2]					Farm price				
	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984
	Acres					1,000 pounds					Cents per pound				
January	10	15	15	17	**19**	46	87	63	91	**121**	76.8	85.9	89.5	87.1	**73.7**
February	12	15	14	18	**19**	71	88	73	98	**108**	73.8	87.0	91.7	64.8	**65.0**
March	9	16	12	23	**19**	90	101	77	110	**133**	74.6	90.4	89.7	52.7	**57.2**
April	14	18	17	17	**19**	93	135	119	98	**114**	74.3	69.1	87.1	62.6	**58.8**
May	14	20	17	19	**18**	114	112	107	129	**130**	72.0	75.8	76.8	59.5	**60.4**
June	13	20	19	22	**17**	100	101	115	147	**112**	74.5	64.1	76.4	49.1	**65.7**
July	13	19	18	18	**16**	104	116	107	109	**114**	73.9	71.3	69.4	57.7	**63.2**
August	14	17	16	18	**16**	117	117	77	122	**118**	72.8	72.8	71.8	60.6	**65.4**
September	13	17	15	16	**14**	88	111	77	121	**117**	71.6	69.0	75.4	63.8	**64.9**
October	12	15	15	14	**14**	96	118	77	92	**123**	72.1	75.0	75.5	68.9	**64.6**
November	15	14	16	17	**14**	102	116	58	116	**112**	75.0	76.9	77.7	69.0	**76.7**
December	13	13	14	19	**15**	79	98	45	127	**88**	76.2	83.3	86.5	67.9	**82.6**
Total or average	130	130	130	185	**170**	1,100	1,300	995	1,360	**1,390**	73.8	76.1	80.0	62.8	**66.0**

[1] Sum of monthly data exceeds total because harvest period longer than 1 month.
[2] Sum of monthly estimates may not add to annual total due to rounding.

BROCCOLI: Acreage, yield, production, price, and value, State of Hawaii, 1980-84

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
1980..	40	9.2	370	33.2	123
1981..	45	11.1	500	33.3	167
1982..	52	11.0	570	35.5	202
1983..	70	9.7	680	36.6	249
1984..	70	9.4	660	38.5	254

BURDOCK: Acreage, yield, production, price, and value, State of Hawaii, 1980-84

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
1980..	35	16.3	570	56.9	324
1981..	35	18.3	640	57.2	366
1982..	30	18.7	560	53.7	301
1983..	50	15.8	790	65.0	514
1984..	50	16.4	820	63.9	524

CARROTS: Acreage, yield, production, price, and value, State of Hawaii, 1980-84

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
1980..	25	12.4	310	19.9	62
1981..	15	15.3	230	23.4	54
1982..	13	14.6	190	23.9	45
1983..	12	12.5	150	22.5	34
1984..	15	14.7	220	21.6	48

CAULIFLOWER: Acreage, yield, production, price, and value, State of Hawaii, 1980-84

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
1980..	30	14.0	420	30.0	126
1981..	30	15.0	450	27.2	122
1982..	25	14.0	350	30.5	107
1983..	25	15.0	375	36.0	135
1984..	30	13.7	410	33.0	135

CHINESE CABBAGE: Acreage, yield, production, price, and value, by islands, 1980-84

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE [1]		
1980...	350	19.7	6,900	14.5	1,001
1981...	310	21.6	6,700	14.5	972
1982...	330	23.7	7,820	14.5	1,134
1983...	370	23.6	8,750	10.8	945
1984...	**400**	19.8	7,910	13.1	1,036
			HAWAII		
1980...	315	20.0	6,300	14.3	901
1981...	280	22.1	6,180	14.3	884
1982...	310	24.1	7,480	14.4	1,077
1983...	355	23.9	8,490	10.7	908
1984...	**380**	19.6	7,460	12.7	947
			KAUAI/MAUI/OAHU [2]		
1980...	35	17.1	600	16.6	100
1981...	30	17.3	520	16.9	88
1982...	20	17.0	340	16.7	57
1983...	15	17.3	260	14.4	37
1984...	**20**	22.5	450	19.7	89

[1] Sum of island estimates may not add to State total due to rounding.
[2] Kauai and Oahu combined with Maui to avoid disclosure of individual operations.

CHINESE CABBAGE: Acreage, production, and price, State of Hawaii, 1980-84

Month	Acreage harvested [1]					Processing and fresh market									
						Production					Farm price				
	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984
	Acres					1,000 pounds					Cents per pound				
January	29	32	25	31	**33**	519	620	671	581	**609**	18.2	12.7	14.7	11.2	**12.7**
February	26	31	25	32	**38**	555	552	635	711	**935**	15.8	13.9	16.2	11.1	**12.4**
March	40	29	27	39	**61**	694	644	841	1,146	**1,299**	13.9	14.6	15.6	10.3	**10.7**
April	30	34	33	36	**44**	587	725	928	1,132	**691**	13.1	12.4	14.9	12.6	**9.2**
May	30	28	31	23	**36**	586	642	767	698	**514**	14.1	11.6	13.2	15.4	**9.8**
June	33	25	32	29	**25**	525	507	589	601	**594**	13.7	10.2	11.1	11.9	**9.8**
July	28	21	23	25	**28**	610	460	445	654	**561**	12.6	15.2	13.6	9.5	**11.8**
August	27	19	25	30	**31**	507	341	480	674	**598**	12.9	19.2	18.5	10.0	**13.7**
September	27	18	23	32	**30**	570	385	497	662	**532**	16.1	21.1	17.1	9.5	**14.2**
October	24	20	28	28	**27**	531	619	686	616	**543**	14.8	19.4	15.1	9.1	**17.2**
November	27	26	28	33	**28**	502	550	624	646	**516**	14.9	13.9	12.2	8.1	**20.3**
December	29	27	30	32	**19**	714	655	657	629	**518**	14.8	13.9	12.0	9.0	**21.2**
Total or average	350	310	330	370	**400**	6,900	6,700	7,820	8,750	**7,910**	14.5	14.5	14.5	10.8	**13.1**

[1] Sum of monthly estimates may not add to annual total due to rounding.

PROCESSED CHINESE CABBAGE AND DAIKON: Quantity processed, price, and value, State of Hawaii, 1980-84

Year	Chinese cabbage			Daikon		
	Quantity processed	Farm price	Value of sales	Quantity processed	Farm price	Value of sales
	1,000 pounds	Cents per pound	1,000 dollars	1,000 pounds	Cents per pound	1,000 dollars
1980...	1,540	14.7	226	1,030	8.6	89
1981...	1,730	14.8	256	690	10.3	71
1982...	1,700	14.4	245	920	10.4	96
1983...	1,650	11.5	190	740	10.6	78
1984...	1,390	13.5	188	610	11.6	71

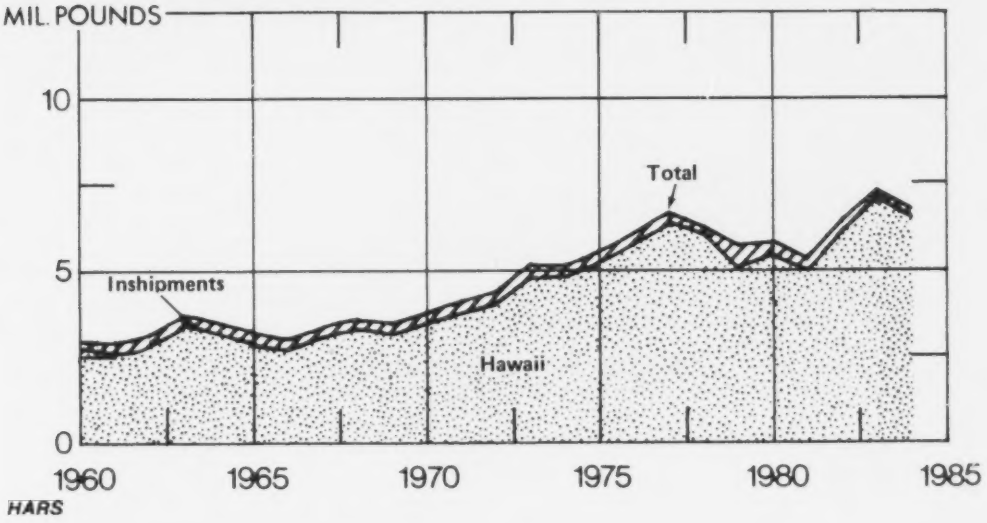
MUSTARD CABBAGE: Acreage, yield, production, price, and value, State of Hawaii, 1980-84

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
1980...	100	13.3	1,330	30.3	403
1981...	125	12.2	1,520	28.3	430
1982...	120	9.8	1,170	35.7	418
1983...	170	9.7	1,650	30.5	503
1984...	165	10.7	1,770	30.3	536

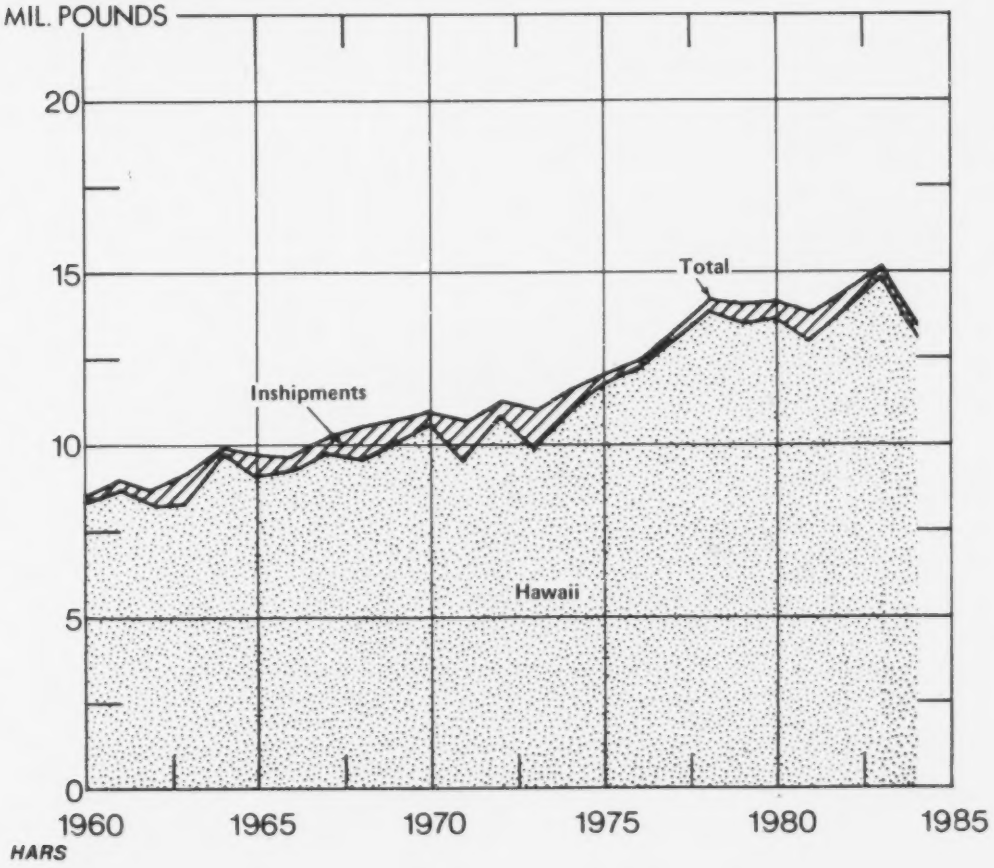
DASHEEN: Acreage, yield, production, price, and value, State of Hawaii, 1980-84

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
1980...	14	24.3	340	51.4	175
1981...	7	28.6	200	59.0	118
1982...	13	25.4	330	65.1	215
1983...	18	25.0	450	52.4	236
1984...	12	20.0	240	52.5	126

MARKET SUPPLY: Fresh Market Chinese Cabbage, State of Hawaii, 1960-84



MARKET SUPPLY: Fresh Market Head Cabbage, State of Hawaii, 1960-84



HEAD CABBAGE: Acreage, yield, production, price, and value, by islands, 1980-84

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE [1]		
1980...	460	29.5	13,600	12.8	1,741
1981...	510	25.0	12,800	14.0	1,792
1982...	540	25.5	13,800	14.1	1,946
1983...	550	27.3	15,000	11.8	1,770
1984...	**470**	**28.1**	**13,190**	**15.6**	**2,058**
			HAWAII/KAUAI/OAHU [2]		
1980...	100	23.3	2,330	12.3	287
1981...	120	19.2	2,300	13.6	312
1982...	125	21.6	2,700	12.9	348
1983...	130	23.1	3,000	10.2	306
1984...	**125**	**21.5**	**2,690**	**12.5**	**336**
			MAUI		
1980...	360	31.3	11,270	12.9	1,454
1981...	390	26.9	10,500	14.1	1,480
1982...	415	26.7	11,100	14.4	1,598
1983...	420	28.6	12,000	12.2	1,464
1984...	**345**	**30.4**	**10,500**	**16.4**	**1,722**

[1] Sum of island estimates may not add to State total due to rounding.
[2] Kauai and Oahu combined with Hawaii to avoid disclosure of individual operations.

HEAD CABBAGE: Acreage, production, and price, State of Hawaii, 1980-84

Month	Acreage harvested [1]					Production [1]					Farm price				
	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984
	Acres					1,000 pounds					Cents per pound				
January	38	43	43	42	**42**	1,162	1,139	1,218	1,220	**1,184**	14.7	13.9	15.4	13.3	**14.4**
February	36	48	45	52	**39**	1,087	1,203	1,156	1,269	**1,158**	12.9	13.9	15.6	12.8	**16.5**
March	37	47	49	53	**45**	1,198	1,263	1,247	1,420	**1,278**	12.5	13.1	15.8	11.7	**16.2**
April	38	47	39	51	**41**	1,220	1,259	1,152	1,201	**1,088**	12.5	12.6	15.5	10.6	**15.0**
May	40	47	41	49	**40**	1,245	1,162	1,219	1,224	**1,177**	12.5	10.5	15.0	10.2	**13.7**
June	39	44	43	50	**41**	1,128	1,087	1,086	1,237	**1,162**	11.3	9.3	13.0	9.7	**13.7**
July	39	35	43	47	**36**	1,183	830	1,181	1,227	**1,083**	10.4	13.4	11.7	9.4	**14.5**
August	41	39	45	48	**40**	1,093	877	1,026	1,234	**1,083**	10.6	14.8	11.6	9.9	**14.9**
September	41	34	47	43	**36**	1,118	797	906	1,242	**962**	13.0	17.2	13.9	12.7	**16.6**
October	36	38	48	38	**37**	961	929	1,111	1,224	**991**	13.7	18.8	14.2	13.7	**17.6**
November	36	44	45	39	**38**	994	1,041	1,135	1,247	**943**	14.7	17.0	13.6	13.7	**18.0**
December	37	44	52	38	**35**	1,211	1,213	1,363	1,255	**1,081**	14.7	15.7	13.0	14.0	**17.5**
Total or average	460	510	540	550	**470**	13,600	12,800	13,800	15,000	**13,190**	12.8	14.0	14.1	11.8	**15.6**

[1] Sum of monthly estimates may not add to State total due to rounding.

CELERY: Acreage, yield, production, price, and value, by islands, 1980-84

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE		
1980...	70	41.1	2,880	16.7	481
1981...	65	43.4	2,820	20.1	567
1982...	75	42.0	3,150	19.4	611
1983...	110	36.0	3,960	19.7	780
1984...	**115**	**35.2**	**4,050**	**20.0**	**810**
			HAWAII		
1980...	55	41.8	2,300	16.1	370
1981...	50	42.0	2,100	19.6	412
1982...	60	40.7	2,440	19.1	466
1983...	90	34.9	3,140	19.2	603
1984...	**100**	**34.4**	**3,440**	**19.3**	**664**
			MAUI		
1980...	15	38.7	580	19.1	111
1981...	15	48.0	720	21.5	155
1982...	15	47.3	710	20.4	145
1983...	20	41.0	820	21.6	177
1984...	**15**	**40.7**	**610**	**23.9**	**146**

CELERY: Acreage, production, and price, State of Hawaii, 1980-84

Month	Acreage harvested					Production					Farm price				
	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984
	Acres					1,000 pounds					Cents per pound				
January	4	5	6	7	**9**	164	201	293	256	**321**	18.7	19.8	20.6	17.8	**29.3**
February	4	5	5	7	**12**	155	208	242	270	**345**	18.0	19.9	20.8	17.7	**28.8**
March	6	5	6	8	**10**	240	242	263	326	**381**	17.5	18.8	21.7	18.3	**23.5**
April	6	6	6	9	**13**	261	253	270	347	**391**	16.2	18.9	19.6	19.7	**19.6**
May	5	7	6	10	**10**	244	299	280	369	**391**	16.5	19.6	19.4	22.3	**16.6**
June	6	5	7	10	**10**	253	265	313	362	**382**	16.5	20.7	20.0	21.1	**17.2**
July	7	6	7	10	**10**	261	235	310	394	**396**	16.5	21.0	18.1	20.0	**17.4**
August	7	5	6	10	**9**	275	219	253	334	**347**	16.6	21.1	17.4	17.6	**16.6**
September	6	5	6	10	**9**	238	206	202	313	**330**	16.1	20.5	18.5	18.2	**16.2**
October	6	5	6	9	**9**	260	223	215	291	**309**	16.2	20.1	18.4	19.2	**17.2**
November	7	5	7	10	**8**	260	215	232	355	**228**	16.1	20.0	18.7	19.2	**18.2**
December	6	6	7	10	**6**	269	254	277	343	**229**	16.4	20.6	18.6	23.4	**20.2**
Total or average	70	65	75	110	**115**	2,880	2,820	3,150	3,960	**4,050**	16.7	20.1	19.4	19.7	**20.0**

SWEET CORN: Acreage, yield, production, price, and value, by islands, 1980-84

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE [1]		
1980...	250	3.8	950	26.2	249
1981...	290	3.6	1,050	29.3	308
1982...	170	3.3	560	33.4	187
1983...	250	3.5	880	33.8	297
1984...	**315**	**4.1**	**1,300**	**35.8**	**465**
			HAWAII/KAUAI [2]		
1980...	35	4.9	170	27.6	47
1981...	40	4.4	175	26.9	47
1982...	16	4.7	75	32.0	24
1983...	25	5.4	135	31.3	42
1984...	**40**	**5.8**	**230**	**28.4**	**65**
			MAUI/MOLOKAI		
1980...	20	4.0	80	24.5	20
1981...	15	3.7	55	34.6	19
1982...	9	3.9	35	45.7	16
1983...	20	4.0	80	46.3	37
1984...	**25**	**5.6**	**140**	**42.0**	**59**
			OAHU		
1980...	195	3.6	700	26.0	182
1981...	235	3.5	820	29.5	242
1982...	145	3.1	450	32.6	147
1983...	205	3.2	665	32.8	218
1984...	250	3.7	930	36.7	341

[1] Sum of island estimates may not add to State total due to rounding.
[2] Kauai combined with Hawaii to avoid disclosure of individual operations.

SWEET CORN: Acreage, production, and price, State of Hawaii, 1980-84

Month	Acreage harvested					Production [1]					Farm price				
	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984
	Acres					1,000 pounds					Cents per pound				
January	13	17	11	5	**12**	33	55	30	10	**43**	23.2	27.4	31.1	33.3	**36.7**
February	12	15	6	9	**12**	36	51	26	13	**40**	22.7	28.4	33.5	33.8	**37.9**
March	8	14	2	6	**19**	21	52	10	18	**88**	25.7	31.7	36.0	34.5	**45.3**
April	16	28	6	11	**22**	48	133	28	60	**95**	27.8	30.7	38.9	32.4	**36.5**
May	21	34	11	26	**25**	91	109	37	95	**105**	21.7	31.5	33.8	33.2	**36.2**
June	18	32	19	28	**22**	93	116	66	103	**135**	21.6	31.9	34.3	31.9	**37.3**
July	23	20	24	26	**40**	133	88	95	102	**171**	26.8	27.9	32.0	37.7	**37.4**
August	27	29	18	27	**42**	125	106	67	90	**129**	27.1	27.3	31.6	34.4	**40.2**
September	24	32	12	31	**37**	80	104	49	85	**135**	26.6	28.0	30.7	31.5	**37.1**
October	27	26	14	31	**31**	86	89	51	116	**105**	28.1	28.9	31.7	31.7	**28.6**
November	32	25	25	30	**30**	101	85	68	120	**152**	28.8	28.0	36.9	35 3	**28.5**
December	29	18	22	20	**23**	103	62	33	68	**102**	29.5	28.3	34.5	36.3	**31.2**
Total or average	250	290	170	250	**315**	950	1,050	560	880	**1,300**	26.2	29.3	33.4	33.8	**35.8**

[1] Sum of monthly estimates may not add to annual total due to rounding.

CUCUMBERS: Acreage, yield, production, price, and value, by islands, 1980-84

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE [1]		
1980...	210	22.0	4,600	25.5	1,173
1981...	250	20.0	5,000	25.3	1,265
1982...	225	19.3	4,350	31.1	1,353
1983...	250	20.8	5,200	26.6	1,383
1984...	**230**	**21.2**	**4,870**	**27.7**	**1,349**
			HAWAII		
1980...	90	32.8	2,950	22.8	673
1981...	90	33.3	3,000	22.2	666
1982...	90	30.6	2,750	28.2	776
1983...	100	33.2	3,320	23.9	793
1984...	**100**	**30.6**	**3,060**	**26.1**	**799**
			KAUAI		
1980...	15	16.0	240	27.7	66
1981...	35	11.4	400	24.6	98
1982...	35	11.6	405	27.8	113
1983...	20	9.5	190	28.6	54
1984...	**15**	**16.0**	**240**	**29.0**	**70**
			MAUI/MOLOKAI		
1980...	25	14.4	360	26.7	96
1981...	35	11.4	400	28.2	113
1982...	25	13.2	330	30.5	101
1983...	50	11.2	560	25.9	145
1984...	**55**	**12.7**	**700**	**27.8**	**195**
			OAHU		
1980...	80	13.1	1,050	32.2	338
1981...	90	13.3	1,200	32.3	388
1982...	75	11.7	865	42.0	363
1983...	80	14.1	1,130	34.6	391
1984...	**60**	**14.5**	**870**	**32.8**	**285**

[1] Sum of island estimates may not add to State total due to rounding.

CUCUMBERS: Acreage, production, and price, State of Hawaii, 1980-84

Month	Acreage harvested [1]					Production [2]					Farm price				
	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984
	Acres					1,000 pounds					Cents per pound				
January	22	24	33	24	**46**	217	371	385	328	**522**	26.7	28.5	30.3	32.8	**25.4**
February	17	17	21	24	**32**	264	198	335	380	**387**	26.3	30.0	41.6	37.1	**33.4**
March	21	26	25	20	**28**	220	307	299	257	**573**	27.9	30.8	40.6	35.2	**32.2**
April	27	36	33	25	**29**	392	495	377	395	**351**	26.4	20.8	34.1	33.0	**28.6**
May	28	30	28	31	**27**	488	459	299	557	**472**	25.4	21.4	31.5	22.9	**27.4**
June	28	27	32	31	**24**	354	414	466	611	**356**	23.8	26.2	29.6	20.3	**22.5**
July	30	26	34	28	**24**	526	549	561	374	**365**	22.9	24.5	18.1	21.6	**23.1**
August	37	34	31	27	**18**	577	503	309	422	**342**	18.5	20.9	25.4	23.3	**25.7**
September	30	32	24	22	**26**	479	422	326	324	**405**	23.8	24.2	32.0	27.0	**26.0**
October	25	30	18	23	**23**	298	387	325	357	**330**	28.9	27.4	32.4	31.2	**27.9**
November	22	28	23	29	**27**	336	500	337	522	**435**	31.1	28.0	33.1	26.3	**27.9**
December	22	27	21	42	**25**	449	395	331	673	**332**	31.7	27.3	34.8	22.1	**30.4**
Total or average	210	250	225	250	**230**	4,600	5,000	4,350	5,200	**4,870**	25.5	25.3	31.1	26.6	**27.7**

[1] Sum of monthly data exceeds total because harvest period longer than 1 month.
[2] Sum of monthly estimates may not add to annual total due to rounding.

DAIKON: Acreage, yield, production, price, and value, by islands, 1980-84

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE[1]		
1980...	200	16.9	3,370	15.9	536
1981...	200	13.4	2,680	16.6	445
1982...	180	17.0	3,060	17.8	545
1983...	190	16.5	3,140	15.7	493
1984...	**200**	**15.0**	**3,000**	**17.1**	**513**
			HAWAII		
1980...	110	15.0	1,645	10.6	174
1981...	110	12.9	1,420	12.6	179
1982...	100	19.4	1,940	14.0	272
1983...	80	19.8	1,580	12.2	193
1984...	**80**	**15.0**	**1,200**	**11.6**	**139**
			MAUI/OAHU[2]		
1980...	90	19.2	1,725	21.0	362
1981...	90	14.0	1,260	21.1	266
1982...	80	14.0	1,120	24.4	273
1983...	110	14.2	1,560	19.2	300
1984...	**120**	**15.0**	**1,800**	**20.8**	**374**

[1] Sum of island estimates may not add to State total due to rounding.
[2] Maui combined with Oahu to avoid disclosure of individual operations.

DAIKON: Acreage, production, and price, State of Hawaii, 1980-84

Month	Acreage harvested[1]					Processing and fresh market: Production					Processing and fresh market: Farm price				
	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984
	Acres					1,000 pounds					Cents per pound				
January	18	18	17	15	**18**	266	194	230	329	**294**	17.3	16.1	21.7	20.6	**14.9**
February	16	14	13	14	**17**	288	185	207	272	**252**	17.5	15.4	19.5	15.1	**15.5**
March	15	18	11	16	**17**	267	249	242	271	**301**	17.9	17.6	20.6	12.6	**16.9**
April	20	19	13	16	**17**	385	311	299	258	**249**	14.6	11.8	20.3	18.9	**15.0**
May	21	20	14	16	**15**	370	230	324	288	**247**	12.2	14.9	15.2	16.2	**15.2**
June	14	16	15	16	**18**	244	182	269	260	**260**	13.8	17.5	14.1	14.0	**15.7**
July	16	19	15	17	**15**	276	254	226	260	**211**	15.7	17.4	15.9	13.4	**16.4**
August	17	19	18	17	**17**	267	232	277	229	**231**	14.3	14.7	15.1	13.4	**19.4**
September	16	15	15	16	**15**	255	155	211	227	**161**	15.2	16.3	17.7	15.5	**20.3**
October	17	13	18	16	**19**	247	202	284	212	**289**	17.0	19.2	17.3	15.5	**19.8**
November	12	14	16	15	**15**	212	224	238	255	**235**	19.2	18.3	17.9	15.9	**18.0**
December	18	15	15	16	**17**	293	262	253	279	**270**	18.5	21.3	19.6	15.8	**19.4**
Total or average	200	200	180	190	**200**	3,370	2,680	3,060	3,140	**3,000**	15.9	16.6	17.8	15.7	**17.1**

[1] Sum of monthly estimates may not add to State total due to rounding.

EGGPLANT: Acreage, yield, production, price, and value, by islands, 1980-84

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE[1]		
1980...	60	25.7	1,540	38.1	587
1981...	60	35.7	1,580	35.7	564
1982...	45	25.1	1,130	45.2	511
1983...	60	24.7	1,480	48.0	710
1984...	60	23.0	1,380	44.2	610
			HAWAII/MAUI/MOLOKAI[2]		
1980...	14	18.6	260	35.8	93
1981...	15	18.0	270	34.8	94
1982...	11	22.7	250	40.7	102
1983...	15	24.0	360	40.7	147
1984...	15	22.0	330	41.3	136
			KAUAI		
1980...	17	28.8	490	38.1	187
1981...	15	32.7	490	33.3	163
1982...	14	29.3	410	42.5	174
1983...	15	26.7	400	42.6	170
1984...	10	26.0	260	41.0	107
			OAHU		
1980...	29	27.2	790	38.8	307
1981...	30	27.3	820	37.4	307
1982...	20	23.5	470	50.1	235
1983...	30	24.0	720	54.6	393
1984...	35	22.6	790	46.4	367

[1] Sum of island estimates may not add to State total due to rounding.
[2] Maui and Molokai combined with Hawaii to avoid disclosure of individual operations.

GINGER ROOT: Acreage, yield, production, price, and value, State of Hawaii, 1980-84

Year	Acreage harvested	Yield per acre	Production	Out-of-State sales	Farm price	Value of sales
	Acres	1,000 pounds			Cents per pound	1,000 dollars
1980...	40	40.2	1,610	1,420	67.7	1,090
1981...	64	44.7	2,860	2,620	76.2	2,179
1982...	100	36.3	3,630	NA	92.3	3,350
1983...	160	32.1	5,140	NA	54.6	2,806
1984...	135	37.4	5,050	NA	45.1	2,280

NA = Not available.

LETTUCE (HEAD, SEMI-HEAD): Acreage, yield, production, price, and value, by islands, 1980-84

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE[1]		
1980...	660	15.0	9,900	19.7	1,950
1981...	680	15.0	10,200	22.7	2,315
1982...	650	14.5	9,400	26.2	2,463
1983...	840	14.5	12,200	23.0	2,806
1984...	**730**	**14.0**	**10,200**	**24.1**	**2,458**
			HAWAII		
1980...	350	12.6	4,400	16.1	708
1981...	300	14.3	4,300	17.6	757
1982...	290	13.4	3,900	23.6	920
1983...	350	12.9	4,520	21.2	958
1984...	**370**	**11.9**	**4,400**	**19.9**	**876**
			KAUAI/OAHU[2]		
1980...	120	17.1	2,050	29.8	611
1981...	120	16.7	2,000	35.4	708
1982...	115	14.8	1,700	32.9	559
1983...	120	14.1	1,690	36.0	608
1984...	**125**	**11.2**	**1,400**	**42.0**	**588**
			MAUI/MOLOKAI		
1980...	190	18.2	3,450	18.3	631
1981...	260	15.0	3,900	21.8	850
1982...	245	15.5	3,800	25.9	984
1983...	370	16.2	5,990	20.7	1,240
1984...	**235**	**18.7**	**4,400**	**22.6**	**994**

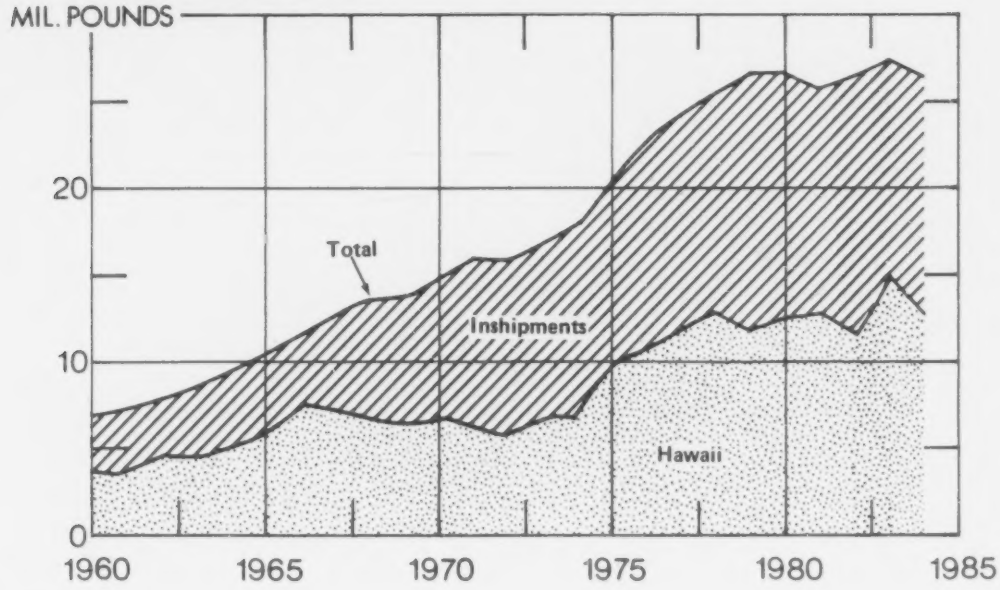
[1] Sum of island estimates may not add to State total due to rounding.
[2] Kauai combined with Oahu to avoid disclosure of individual operations.

LETTUCE (HEAD, SEMI-HEAD): Acreage, production, and price, State of Hawaii, 1980-84

Month	Acreage harvested[1]					Production[1]					Farm price				
	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984
	Acres					1,000 pounds					Cents per pound				
January	39	59	53	55	**69**	485	814	561	777	**894**	23.6	22.5	35.3	27.2	**27.1**
February	41	56	47	67	**71**	551	798	511	939	**1,030**	24.0	21.5	39.5	23.6	**26.4**
March	55	60	55	82	**71**	801	953	611	1,302	**1,184**	19.5	21.1	28.4	19.2	**22.3**
April	48	62	50	79	**66**	751	927	858	1,228	**1,053**	20.7	18.7	27.8	18.4	**20.6**
May	62	62	56	82	**63**	975	1,035	1,071	1,284	**1,035**	19.1	18.9	23.4	21.4	**21.7**
June	61	58	54	76	**64**	895	966	957	1,184	**994**	18.4	19.5	22.2	22.2	**21.8**
July	62	54	57	69	**63**	962	851	902	1,067	**841**	17.1	22.8	22.7	21.8	**22.6**
August	62	57	50	69	**71**	933	668	759	1,016	**916**	18.0	25.2	24.0	22.5	**22.1**
September	57	52	55	68	**56**	922	752	793	922	**740**	19.6	26.0	25.8	23.3	**23.8**
October	56	51	56	61	**51**	905	814	1,034	802	**545**	21.5	25.4	23.4	26.4	**29.4**
November	58	55	60	63	**46**	912	823	753	833	**490**	19.6	25.7	24.8	28.2	**31.4**
December	59	54	57	69	**39**	808	799	590	846	**478**	19.6	28.2	28.0	28.0	**28.7**
Total or average	660	680	650	840	**730**	9,900	10,200	9,400	12,200	**10,200**	19.7	22.7	26.2	23.0	**24.1**

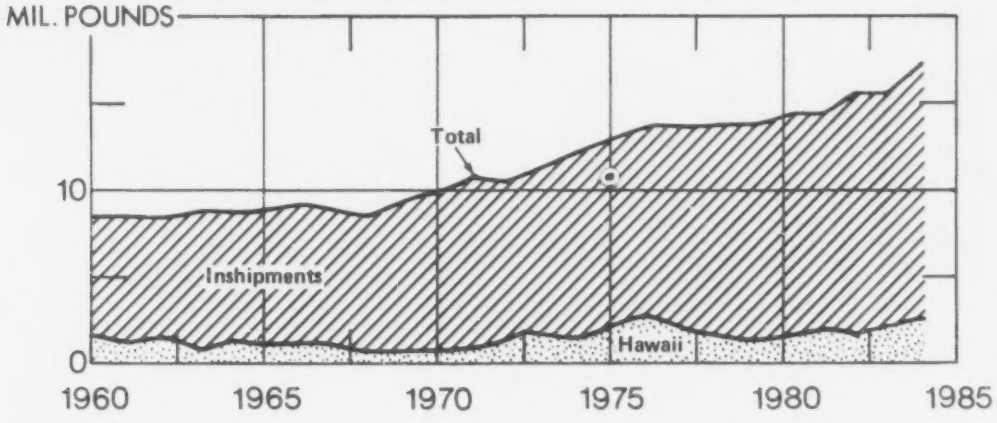
[1] Sum of monthly estimates may not add to State total due to rounding.

MARKET SUPPLY: Fresh Market Lettuce, State of Hawaii, 1960-84



HARS

MARKET SUPPLY: Fresh Market Dry Onions, State of Hawaii, 1960-84



HARS

DRY ONIONS: Acreage, yield, production, price, and value, by islands, 1980-84

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE[1]		
1980...	80	14.4	1,150	60.8	699
1981...	120	16.5	1,980	51.4	1,018
1982...	105	12.9	1,350	66.2	894
1983...	150	15.2	2,280	55.4	1,263
1984...	**200**	**13.3**	**2,660**	**61.4**	**1,633**
			HAWAII/KAUAI/OAHU[2]		
1980...	5	14.0	70	58.5	41
1981...	10	13.0	130	52.7	69
1982...	10	10.0	100	64.0	64
1983...	10	14.0	140	50.5	71
1984...	**10**	**11.0**	**110**	**49.8**	**55**
			MAUI/MOLOKAI		
1980...	75	14.4	1,080	60.9	658
1981...	110	16.8	1,850	51.3	949
1982...	95	13.2	1,250	66.4	830
1983...	140	15.3	2,140	55.7	1,192
1984...	**190**	**13.4**	**2,550**	**61.9**	**1,578**

[1] Sum of island estimates may not add to State total due to rounding.
[2] Kauai and Oahu combined with Hawaii to avoid disclosure of individual operations.

DRY ONIONS: Acreage, production, and price, State of Hawaii, 1980-84

Month	Acreage harvested[1]					Production					Farm price				
	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984
	Acres					1,000 pounds					Cents per pound				
January	5	6	5	8	**13**	83	117	95	101	**128**	57.9	61.9	61.7	69.2	**73.6**
February	5	7	12	12	**15**	75	118	96	181	**147**	62.1	62.0	70.7	71.4	**66.2**
March	5	8	12	12	**18**	87	215	173	169	**326**	65.5	58.6	77.9	68.3	**43.4**
April	5	11	8	10	**18**	74	291	90	226	**255**	59.0	45.5	72.0	58.0	**44.1**
May	6	14	7	16	**11**	84	240	100	329	**189**	69.5	41.7	66.7	47.5	**63.3**
June	10	14	11	14	**14**	148	212	145	266	**216**	60.5	36.8	60.7	37.5	**62.2**
July	11	11	10	14	**19**	147	157	144	218	**249**	51.0	41.7	59.4	31.0	**64.0**
August	5	8	7	13	**17**	57	113	75	126	**228**	55.5	47.1	56.6	38.5	**60.9**
September	5	11	12	12	**19**	84	97	126	164	**213**	54.5	55.3	59.9	49.4	**60.1**
October	5	8	5	17	**16**	82	103	61	167	**184**	63.6	61.4	60.5	70.4	**56.8**
November	10	16	9	14	**21**	115	129	141	194	**292**	69.4	64.1	71.2	70.6	**78.5**
December	8	12	7	8	**19**	114	188	104	139	**233**	62.6	62.8	69.0	78.8	**74.6**
Total or average	80	120	105	150	**200**	1,150	1,980	1,350	2,280	**2,660**	60.8	51.4	66.2	55.4	**61.4**

[1] Sum of monthly estimates may not add to State total due to rounding.

GREEN ONIONS: Acreage, yield, production, price, and value, by islands, 1980-84

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE		
1980...	90	10.0	900	72.5	652
1981...	75	9.9	740	76.5	566
1982...	115	7.0	800	84.3	674
1983...	150	7.3	1,090	69.9	762
1984...	**170**	**7.3**	**1,240**	**69.7**	**864**
			HAWAII/KAUAI [1]		
1980...	7	11.4	80	65.5	52
1981...	8	8.8	70	69.2	48
1982...	10	6.5	65	78.5	51
1983...	10	7.0	70	69.1	48
1984...	**15**	**7.0**	**105**	**67.7**	**71**
			MAUI/MOLOKAI		
1980...	8	11.2	90	72.6	65
1981...	7	10.0	70	78.2	55
1982...	10	6.0	60	95.0	57
1983...	10	10.0	100	89.2	89
1984...	**10**	**12.5**	**125**	**84.1**	**105**
			OAHU		
1980...	75	9.7	730	73.3	535
1981...	60	10.0	600	77.2	463
1982...	95	7.1	675	83.9	566
1983...	130	7.1	920	67.9	625
1984...	**145**	**7.0**	**1,010**	**68.1**	**688**

[1] Kauai combined with Hawaii to avoid disclosure of individual operations.

GREEN ONIONS: Acreage, production, and price, State of Hawaii, 1980-84

Month	Acreage harvested					Production					Farm price				
	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984
	Acres					1,000 pounds					Cents per pound				
January	8	8	9	10	**14**	64	37	42	77	**106**	83.9	86.0	98.0	96.1	**71.4**
February	7	4	6	11	**12**	75	40	38	85	**90**	81.7	90.6	115.0	80.2	**77.5**
March	8	6	4	13	**13**	65	68	36	93	**96**	84.8	88.1	108.5	78.7	**74.0**
April	7	5	8	13	**13**	77	74	52	107	**99**	79.9	74.9	115.6	71.8	**70.3**
May	8	7	9	14	**15**	89	72	77	108	**115**	69.9	74.8	89.5	63.7	**61.2**
June	8	6	12	14	**15**	81	76	107	101	**116**	66.0	64.6	64.2	51.2	**58.6**
July	8	6	11	13	**12**	80	73	90	96	**101**	63.8	59.9	59.7	54.5	**60.3**
August	7	6	11	12	**15**	78	63	90	83	**112**	60.4	61.1	66.9	63.9	**69.4**
September	8	7	11	11	**14**	84	64	65	80	**93**	62.2	68.8	79.1	76.4	**76.7**
October	7	5	12	11	**15**	76	54	72	71	**107**	68.8	83.3	82.4	72.0	**74.5**
November	6	8	11	14	**16**	61	52	70	87	**112**	78.1	92.5	86.9	69.2	**74.7**
December	8	7	11	14	**16**	70	67	61	102	**93**	78.1	90.6	109.6	70.3	**71.7**
Total or average	90	75	115	150	**170**	900	740	800	1,090	**1,240**	72.5	76.5	84.3	69.9	**69.7**

LOTUS ROOT: Acreage, yield, production, price, and value, State of Hawaii, 1980-84[1]

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
1980...	35	5.4	190	96.7	184
1981...	35	5.1	180	98.5	177
1982...	35	5.7	200	108.6	217
1983...	35	5.3	185	109.5	203
1984...	30	6.0	180	115.0	207

[1] State production all on Island of Oahu.

PUMPKINS: Acreage, yield, production, price, and value, State of Hawaii, 1980-84

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
1980...	20	14.8	295	20.8	61
1981...	25	13.2	330	21.9	72
1982...	23	13.5	310	21.0	65
1983...	25	13.6	340	24.3	83
1984...	30	11.0	330	25.5	84

WATERCRESS: Acreage, production, price, and value, State of Hawaii, 1980-84

Year	Acreage in crop	Production	Farm price	Value of sales
	Acres	1,000 pounds	Cents per pound	1,000 dollars
1980...	32	1,420	48.3	686
1981...	30	1,130	63.3	715
1982...	25	850	73.2	622
1983...	30	1,300	83.4	1,084
1984...	35	1,400	83.8	1,173

GREEN PEPPERS: Acreage, yield, production, price, and value, by islands, 1980-84

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE[1]		
1980...	45	13.8	620	42.7	265
1981...	55	13.8	760	54.4	413
1982...	55	14.9	820	48.1	394
1983...	80	14.9	1,190	53.0	631
1984...	110	13.3	1,460	46.7	682
			HAWAII		
1980...	13	11.2	145	39.8	58
1981...	15	11.7	175	45.6	80
1982...	12	13.3	160	45.5	73
1983...	10	11.0	110	53.8	59
1984...	10	11.0	110	52.0	57
			KAUAI		
1980...	15	16.7	250	42.3	106
1981...	17	15.6	265	56.4	149
1982...	17	15.3	260	51.4	134
1983...	17	16.5	280	49.5	139
1984...	15	15.3	230	40.3	93
			MAUI/MOLOKAI		
1980...	12	14.2	170	45.3	77
1981...	14	15.7	220	51.2	113
1982...	18	15.3	275	44.3	121
1983...	45	14.4	650	54.6	355
1984...	70	12.6	880	48.0	422
			OAHU		
1980...	5	11.0	55	44.5	24
1981...	9	11.1	100	71.4	71
1982...	8	15.6	125	52.7	66
1983...	8	18.8	150	51.7	78
1984...	15	16.0	240	45.8	110

[1] Sum of island estimates may not add to State total due to rounding.

GREEN PEPPERS: Acreage, production, and price, State of Hawaii, 1980-84

Month	Acreage harvested[1]					Production					Farm price				
	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984
	Acres					1,000 pounds					Cents per pound				
January	9	12	17	8	17	33	53	41	54	118	50.6	48.6	54.7	47.9	43.3
February	14	12	13	8	20	26	60	65	65	120	48.0	53.0	55.7	66.6	52.8
March	13	12	12	12	20	52	43	62	94	224	42.4	79.2	58.8	73.8	43.3
April	13	12	10	17	30	42	62	58	137	170	42.6	94.9	57.1	66.2	37.1
May	12	14	12	23	23	81	60	84	165	232	46.1	69.3	58.0	52.5	39.8
June	14	16	18	16	20	65	72	107	133	99	45.6	52.3	55.1	47.6	48.4
July	17	14	20	17	17	83	58	86	119	81	35.6	53.5	46.1	51.7	53.0
August	15	13	20	13	10	39	57	96	106	47	41.8	51.4	38.4	47.7	57.1
September	13	17	13	10	10	37	75	65	75	72	42.4	45.0	35.7	44.7	55.6
October	13	20	12	8	16	61	83	58	69	83	35.3	34.1	36.3	41.3	51.7
November	13	21	9	11	21	44	65	62	79	106	43.7	39.4	36.8	43.2	48.6
December	14	21	6	9	32	57	72	36	94	108	46.7	49.5	41.5	45.5	58.7
Total or average	45	55	55	80	110	620	760	820	1,190	1,460	42.7	54.4	48.1	53.0	46.7

[1] Sum of monthly data exceeds total because harvest period longer than 1 month.

ROMAINE: Acreage, yield, production, price, and value, by islands, 1980-84

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE		
1980...	130	16.7	2,170	16.5	358
1981...	130	17.8	2,320	18.7	434
1982...	115	18.5	2,130	23.9	509
1983...	140	18.7	2,620	19.5	511
1984...	**135**	**17.2**	**2,320**	**21.5**	**499**
			HAWAII		
1980...	75	16.9	1,270	15.4	196
1981...	75	18.1	1,360	17.6	239
1982...	65	18.2	1,180	23.6	278
1983...	80	19.5	1,560	20.1	314
1984...	**90**	**16.9**	**1,520**	**20.6**	**313**
			MAUI		
1980...	55	16.4	900	18.0	162
1981...	55	17.5	960	20.3	195
1982...	50	19.0	950	24.3	231
1983...	60	17.7	1,060	18.6	197
1984...	**45**	**17.8**	**800**	**23.2**	**186**

ROMAINE: Acreage, production, and price, State of Hawaii, 1980-84

Month	Acreage harvested[1]					Production[1]					Farm price				
	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984
	Acres					1,000 pounds					Cents per pound				
January	9	11	8	7	**13**	116	188	134	166	**170**	18.2	18.0	36.6	22.5	**25.0**
February	10	11	8	11	**14**	151	190	107	208	**228**	19.1	18.6	41.0	21.3	**25.3**
March	12	11	9	14	**14**	189	209	145	257	**254**	18.6	19.2	37.3	17.7	**20.3**
April	8	11	10	14	**13**	125	215	191	266	**214**	18.7	16.9	28.1	16.0	**16.6**
May	13	13	11	14	**13**	220	227	244	270	**210**	18.2	16.2	22.7	15.5	**18.2**
June	10	12	11	15	**12**	184	209	227	274	**198**	15.7	15.8	18.0	15.5	**17.9**
July	12	11	11	12	**11**	217	204	226	225	**203**	14.4	17.9	16.4	15.9	**19.3**
August	11	10	9	11	**10**	203	164	154	176	**205**	13.8	17.9	18.9	19.5	**20.2**
September	10	12	9	10	**10**	170	207	162	186	**188**	14.6	22.1	20.9	21.1	**19.3**
October	11	8	10	11	**10**	195	183	215	179	**182**	16.0	20.2	20.1	24.8	**24.3**
November	12	9	9	10	**8**	196	176	167	191	**143**	16.4	19.7	20.3	26.2	**28.2**
December	12	11	10	11	**7**	204	148	158	222	**125**	16.0	24.4	22.1	24.4	**29.5**
Total or average	130	130	115	140	**135**	2,170	2,320	2,130	2,620	**2,320**	16.5	18.7	23.9	19.5	**21.5**

[1] Sum of monthly estimates may not add to State total due to rounding.

SQUASH, ITALIAN: Acreage, yield, production, price, and value, by islands, 1980-84

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE[1]		
1980...	25	12.0	300	30.7	92
1981...	45	12.0	540	30.7	166
1982...	34	11.5	390	36.2	141
1983...	70	10.6	740	32.0	237
1984...	**90**	**10.7**	**960**	**32.2**	**309**
			HAWAII		
1980...	11	10.9	120	29.3	35
1981...	16	11.9	190	30.5	58
1982...	20	11.5	230	36.5	84
1983...	37	10.0	370	31.6	117
1984...	**40**	**10.0**	**400**	**30.6**	**122**
			KAUAI/OAHU[2]		
1980...	2	15.0	30	36.4	11
1981...	3	10.0	30	37.0	11
1982...	3	10.0	30	39.3	12
1983...	6	11.7	70	35.1	25
1984...	**6**	**11.7**	**70**	**35.6**	**25**
			MAUI		
1980...	12	12.5	150	31.0	46
1981...	26	12.3	320	30.2	97
1982...	11	11.8	130	35.0	45
1983...	27	11.1	300	31.8	95
1984...	**44**	**11.1**	**490**	**33.0**	**162**

[1] Sum of island estimates may not add to State total due to rounding.
[2] Oahu combined with Kauai to avoid disclosure of individual operations.

SWEETPOTATOES: Acreage, yield, production, price, and value, by islands, 1980-84

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE[1]		
1980...	100	13.0	1,300	27.7	360
1981...	90	13.9	1,250	26.8	335
1982...	130	11.8	1,530	25.2	386
1983...	190	9.8	1,860	25.4	472
1984...	**175**	**9.8**	**1,720**	**27.3**	**470**
			HAWAII		
1980...	[2]12	[2]12.5	[2]150	[2]23.8	[2]36
1981...	[2]10	[2]13.0	[2]130	[2]25.0	[2]33
1982...	[2]15	[2] 8.7	[2]130	[2]24.1	[2]31
1983...	[2]15	[2]11.3	[2]170	[2]25.9	[2]44
1984...	**[2]15**	**[2] 9.3**	**[2]140**	**[2]27.9**	**[2]39**
			KAUAI		
1980...	[2]	[2]	[2]	[2]	[2]
1981...	[2]	[2]	[2]	[2]	[2]
1982...	[2]	[2]	[2]	[2]	[2]
1983...	[2]	[2]	[2]	[2]	[2]
1984...	[2]	[2]	[2]	[2]	[2]
			MAUI/MOLOKAI		
1980...	43	15.3	660	24.0	158
1981...	50	14.2	710	24.1	171
1982...	80	12.5	1,000	22.9	229
1983...	115	9.5	1,090	22.3	243
1984...	**120**	**9.7**	**1,160**	**24.8**	**288**
			OAHU		
1980...	45	10.9	490	33.8	166
1981...	30	13.7	410	31.9	131
1982...	35	11.4	400	31.4	126
1983...	60	10.0	600	30.8	185
1984...	**40**	**10.5**	**420**	**34.1**	**143**

[1] Sum of island estimates may not add to State total due to rounding.
[2] Kauai combined with Hawaii to avoid disclosure of individual operations.

SWEETPOTATOES: Acreage, production, and price, State of Hawaii, 1980-84

Month	Acreage harvested					Production					Farm price				
	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984
	Acres					1,000 pounds					Cents per pound				
January	7	7	11	13	**16**	86	88	84	168	**143**	26.4	28.2	28.1	25.0	**27.6**
February	8	6	10	13	**19**	97	84	90	140	**133**	28.7	27.5	29.4	26.1	**27.8**
March	10	6	10	15	**13**	118	94	112	122	**152**	27.3	26.1	29.4	25.5	**27.4**
April	7	7	6	15	**14**	102	104	86	128	**167**	26.8	25.6	28.2	26.5	**26.9**
May	8	7	10	18	**15**	106	108	105	172	**193**	28.4	27.1	27.9	25.1	**26.0**
June	7	6	9	20	**15**	94	89	140	225	**151**	27.7	28.4	29.5	24.2	**26.0**
July	8	8	12	17	**19**	109	97	143	148	**127**	27.2	26.1	27.1	24.3	**26.7**
August	8	8	13	21	**17**	105	112	143	195	**114**	26.4	27.9	24.1	26.1	**27.2**
September	9	7	13	19	**18**	119	103	173	163	**109**	27.5	26.1	23.3	24.8	**28.8**
October	8	9	10	13	**17**	115	125	161	131	**200**	28.5	26.7	21.0	24.7	**28.3**
November	10	8	13	12	**15**	129	116	156	150	**133**	28.5	26.7	19.3	26.0	**27.7**
December	10	11	13	14	**17**	120	130	137	118	**98**	28.5	25.4	22.3	27.2	**27.9**
Total or average	100	90	130	190	**175**	1,300	1,250	1,530	1,860	**1,720**	27.7	26.8	25.2	25.4	**27.3**

TOMATOES: Acreage, yield, production, price, and value, by islands, 1980-84

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE[1]		
1980...	270	28.5	7,700	31.0	2,387
1981...	280	29.5	8,300	35.3	2,930
1982...	260	30.0	7,800	34.7	2,707
1983...	290	30.0	8,700	38.7	3,367
1984...	280	27.5	7,700	40.3	3,103
			HAWAII		
1980...	130	41.0	5,330	30.8	1,642
1981...	125	41.4	5,170	35.6	1,841
1982...	125	40.8	5,100	35.7	1,821
1983...	125	41.5	5,190	39.8	2,066
1984...	130	34.7	4,510	41.9	1,890
			KAUAI		
1980...	10	15.0	150	42.8	64
1981...	8	16.2	130	46.6	61
1982...	5	17.0	85	48.2	41
1983...	3	16.7	50	52.9	26
1984...	5	22.0	110	54.8	60
			MAUI/MOLOKAI		
1980...	120	16.6	1,990	29.6	589
1981...	135	20.1	2,720	32.6	887
1982...	120	20.6	2,475	30.7	760
1983...	145	21.2	3,080	35.4	1,090
1984...	125	21.0	2,620	35.1	920
			OAHU		
1980...	10	23.0	230	40.1	92
1981...	12	23.3	280	50.4	141
1982...	10	18.5	185	45.8	85
1983...	17	22.4	380	48.6	185
1984...	20	23.0	460	50.7	233

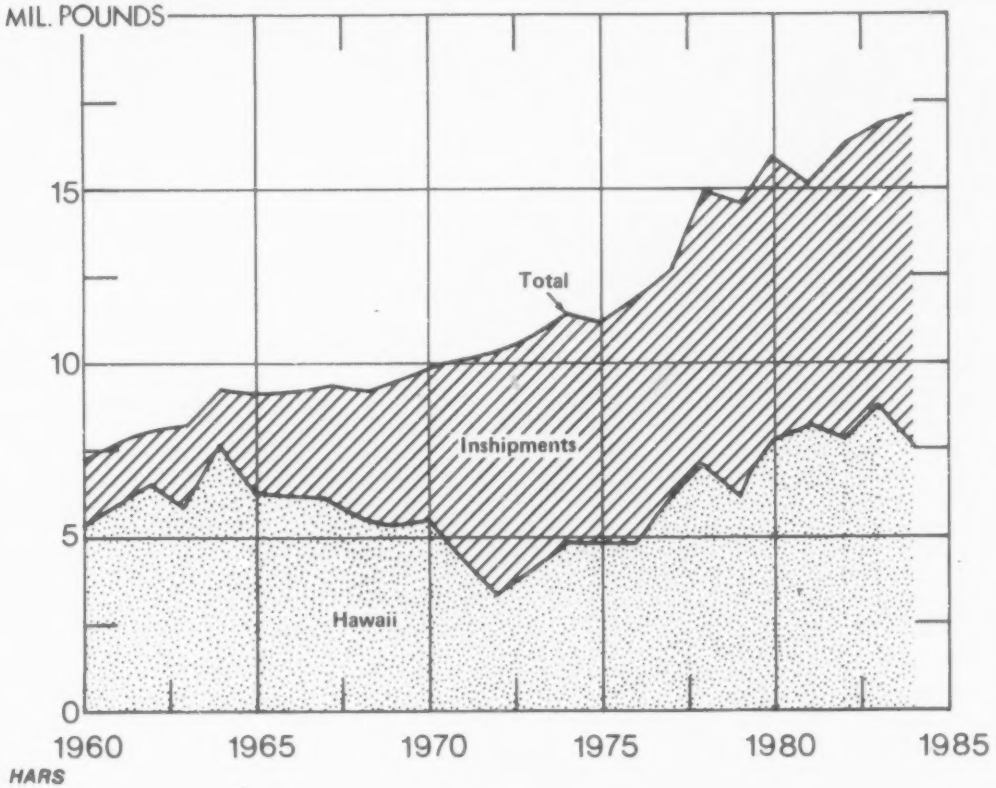
[1] Sum of island estimates may not add to State total due to rounding.

TOMATOES: Acreage, production, and price, State of Hawaii, 1980-84

Month	Acreage harvested[1]					Production[2]					Farm price				
	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984
	Acres					1,000 pounds					Cents per pound				
January	49	47	58	43	**56**	450	695	822	585	**878**	41.5	41.2	34.4	45.5	**35.1**
February	41	53	58	45	**41**	471	582	660	748	**901**	39.7	47.0	40.4	42.1	**37.3**
March	38	53	52	45	**58**	522	678	734	808	**873**	33.6	48.4	36.9	44.5	**38.6**
April	43	54	50	49	**54**	587	787	746	783	**736**	31.9	44.6	31.6	45.9	**41.9**
May	44	58	52	56	**41**	584	917	572	911	**603**	32.2	33.6	29.3	42.7	**42.4**
June	40	59	54	48	**43**	785	847	726	766	**684**	32.3	25.8	34.3	35.2	**40.9**
July	50	46	50	43	**42**	769	730	733	564	**557**	25.9	27.8	31.6	33.2	**38.9**
August	47	46	42	46	**43**	626	610	593	675	**465**	30.0	29.8	32.6	34.9	**43.6**
September	39	46	47	50	**34**	633	514	520	727	**427**	28.2	32.9	32.0	33.0	**44.0**
October	44	40	41	50	**28**	710	517	511	643	**376**	30.2	32.4	33.8	33.8	**44.1**
November	38	49	47	42	**30**	705	659	654	652	**493**	28.0	31.7	36.0	35.6	**46.9**
December	37	52	47	53	**43**	859	764	574	838	**707**	27.1	30.3	41.6	35.5	**39.0**
Total or average	270	280	260	290	**280**	7,700	8,300	7,800	8,700	**7,700**	31.0	35.3	34.7	38.7	**40.3**

[1] Sum of monthly data exceeds total because harvest period longer than 1 month.
[2] Sum of monthly estimates may not add to annual total due to rounding.

MARKET SUPPLY: Fresh Market Tomatoes, State of Hawaii, 1960-84



MINOR CROPS: Acreage, yield, production, price, and value, State of Hawaii, 1980-84

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			BITTERMELON		
1980...	14	15.7	220	70.4	155
1981...	25	11.6	290	65.2	189
1982...	16	11.6	185	84.5	156
1983...	20	13.0	260	66.8	174
1984...	25	13.2	330	57.7	190
			ORIENTAL SQUASH (HYOTAN AND TOGAN)		
1980...	45	16.2	730	18.5	135
1981...	55	14.0	770	17.4	134
1982...	35	12.7	445	28.8	128
1983...	40	13.9	555	21.9	122
1984...	50	13.0	650	19.7	128
			PARSLEY		
1980...	18	13.9	250	67.5	169
1981...	20	14.0	280	68.7	192
1982...	18	14.4	260	73.4	191
1983...	25	13.2	330	70.4	232
1984...	30	13.8	415	78.1	324
			RADISH		
1980...	25	11.8	295	33.3	98
1981...	20	12.0	240	34.0	82
1982...	26	10.4	270	34.4	93
1983...	35	9.4	330	32.8	108
1984...	35	8.6	300	32.4	97
			CHINESE PEAS		
1980...	17	4.1	70	183.9	129
1981...	16	4.4	70	186.9	131
1982...	10	5.0	50	192.0	96
1983...	15	5.3	80	196.1	157
1984...	15	5.3	80	196.5	157

WATERMELONS: Acreage, yield, production, price, and value, by islands, 1980-84

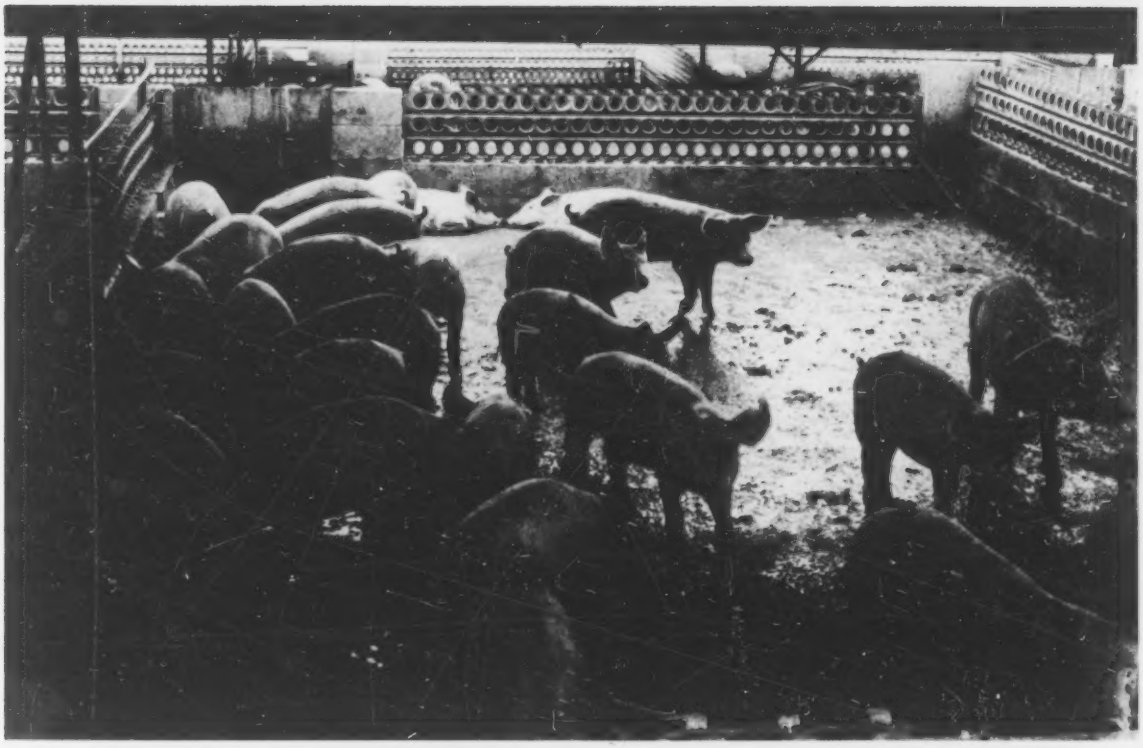
Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE[1]		
1980...	130	10.4	1,350	23.2	313
1981...	150	10.7	1,610	25.7	414
1982...	165	13.3	2,200	24.9	548
1983...	310	12.5	3,860	19.9	768
1984...	**400**	**15.2**	**6,090**	**18.5**	**1,127**
			HAWAII		
1980...	30	7.3	220	18.7	41
1981...	30	7.0	210	20.0	42
1982...	18	8.6	155	23.1	36
1983...	15	8.0	120	20.9	25
1984...	**10**	**6.5**	**65**	**22.4**	**14**
			KAUAI		
1980...	7	12.9	90	23.4	21
1981...	7	11.4	80	28.0	22
1982...	18	15.0	270	20.2	55
1983...	55	13.5	740	19.0	141
1984...	**45**	**16.9**	**760**	**19.2**	**146**
			MAUI/MOLOKAI		
1980...	28	12.1	340	21.4	73
1981...	43	13.0	560	23.0	129
1982...	53	16.5	875	22.0	192
1983...	170	13.3	2,260	17.9	405
1984...	**270**	**16.8**	**4,525**	**17.5**	**792**
			OAHU		
1980...	65	10.8	700	25.4	178
1981...	70	10.9	760	29.1	221
1982...	76	11.8	900	29.5	265
1983...	70	10.6	740	26.6	197
1984...	**75**	**9.9**	**740**	**23.7**	**175**

[1] Sum of island estimates may not add to State total due to rounding.

WATERMELONS: Acreage, production, and price, State of Hawaii, 1980-84

Month	Acreage harvested[1]					Production					Farm price				
	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984
	Acres					1,000 pounds					Cents per pound				
January	3	4	1	2	**1**	5	20	7	11	**5**	20.0	19.0	22.0	21.8	**28.8**
February	2	3	1	0	**1**	10	15	2	0	**3**	20.0	19.0	23.2	0	**25.8**
March	2	7	2	0	**11**	10	36	2	0	**58**	20.0	23.5	40.0	0	**19.8**
April	6	14	2	19	**33**	18	77	4	168	**457**	24.6	26.4	40.0	22.7	**23.6**
May	12	20	5	66	**73**	150	125	36	697	**1,045**	21.0	27.9	25.4	23.4	**22.6**
June	16	26	16	78	**86**	90	334	123	744	**919**	24.3	26.0	24.8	21.1	**21.5**
July	18	26	54	63	**59**	113	124	437	567	**999**	24.4	25.5	28.3	18.8	**17.1**
August	24	20	75	51	**54**	287	277	801	670	**816**	24.4	26.0	23.4	17.1	**16.8**
September	17	37	39	67	**77**	356	274	309	458	**769**	23.0	24.4	20.5	19.3	**15.0**
October	14	32	31	40	**41**	195	240	187	348	**691**	22.8	27.5	26.6	17.5	**13.3**
November	15	8	24	19	**22**	81	56	216	160	**229**	23.6	23.2	28.6	18.0	**17.3**
December	5	3	12	4	**10**	35	32	76	37	**99**	19.8	22.5	24.1	18.7	**17.1**
Total or average	130	150	165	310	**400**	1,350	1,610	2,200	3,860	**6,090**	23.2	25.7	24.9	19.9	**18.5**

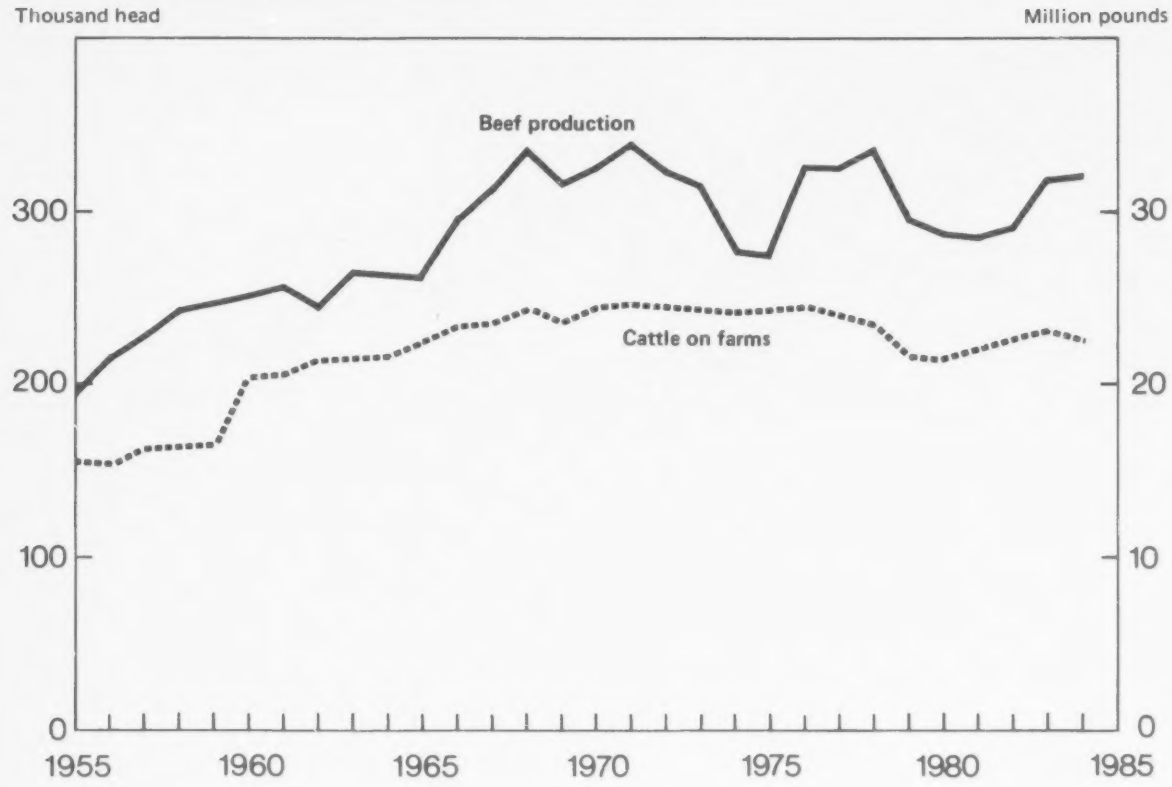
[1] Sum of monthly data exceeds total because harvest period longer than 1 month.



1984 LIVESTOCK SUMMARY

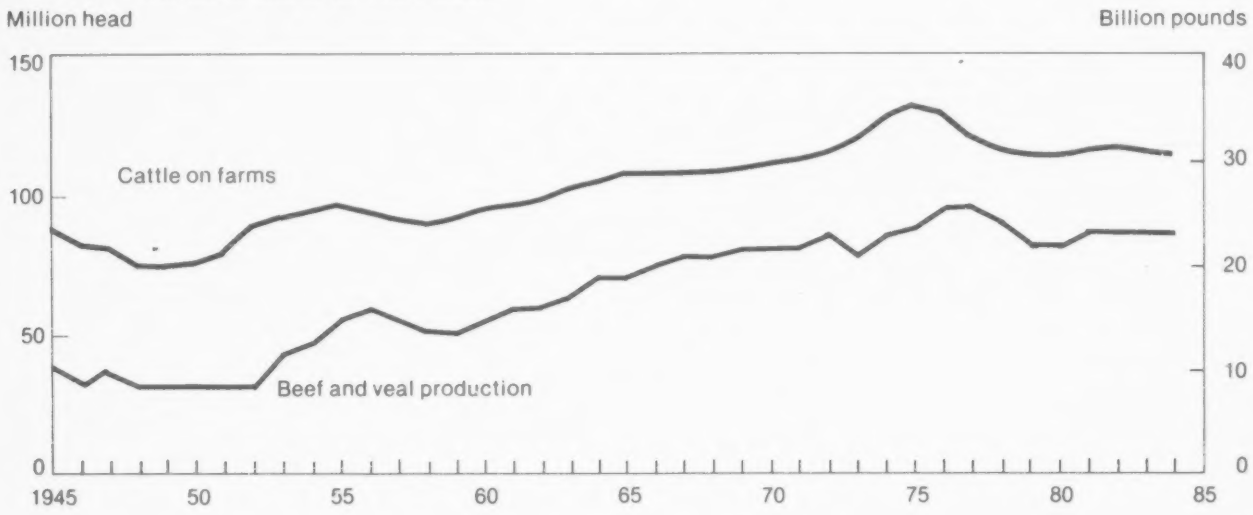
Farm revenues generated from livestock and poultry marketings during 1984 totaled $87.0 million compared to $86.5 million in 1983. Increased marketings were the major reason for the boost as gains were limited primarily by lower cattle prices. The **DAIRY** industry regained the number one position among the livestock enterprises on the strength of milk receipts totaling $29.3 million. With milk prices virtually the same as 1983 at $20.06 per cwt., the increase was accomplished by a 2 percent rise in production. Hawaii cattlemen were not as fortunate with **CATTLE** revenues declining 4 percent to $28.1 million. An increase in beef production to 60.6 million pounds was not enough to offset lower returns to ranchers. The cattle and calf inventory on January 1, 1985 was estimated at 218,000 head, a decline of 8,000 from a year earlier. Some cattle deaths were caused by the extreme drought conditions in localized areas and herds were reduced by culling out weaker, less desirable animals. Cash receipts from the sale of **EGGS, BROILERS AND CHICKENS** was 6 percent above 1983's level. An increase in production to 209.7 million eggs, along with higher prices, returned the egg industry $15.5 million, $1.5 million above the previous year. Although average broiler prices increased, reduced marketings resulted in a 7 percent decline in revenues to $5.0 million. Increases in both marketings and prices raised **HOG** revenues 4 percent above 1983, to $8.1 million. Pork production during 1984 totaled 10.5 million pounds, up from 10.3 million the year before. The number of hogs and pigs on Hawaii farms December 1, 1984 were estimated at 47,000 head, 1,000 fewer than the previous year and the fourth year of decline. Production declines for **HONEY** and beeswax in addition to lower prices for each, resulted in cash receipts of $654,000, down 19 percent from a year earlier.

Hawaii Cattle Numbers and Beef Production



HARS

U.S. Cattle Numbers and Beef Production



1984 production forecast. Cattle and calves on farms January 1

USDA

CATTLE AND CALVES: January 1 inventory by sex classes and weight, by islands, 1981-85

Year	All cattle and calves	All cows and heifers that have calved			Heifers 500 pounds and over				Steers 500 lbs. and over	Bulls 500 lbs. and over	Steers, heifers, and bulls under 500 lbs.
		Total	Beef cows	Milk cows	Total	Beef cow replace-ments	Milk cow replace-ments	Other			
	1,000 head										
						STATE[1]					
1981...	220	93	80	13	42	19	7	16	23	7	55
1982...	228	93	80	13	46	21	8	17	27	8	54
1983...	230	95	83	12	41	17	8	16	29	8	57
1984...	226	93	81	12	45	20	.	18	26	7	55
1985...	218	94	82	12	40	15	6	19	23	6	55
						HAWAII					
1981...	127.2	53.8	52.2	1.6	24.8	13.9	3.0	7.9	10.6	5.0	33.0
1982...	132.3	54.8	53.1	1.7	26.3	15.8	3.3	7.2	11.6	5.4	34.2
1983...	133.3	57.2	55.7	1.5	24.4	12.3	4.0	8.1	12.3	5.3	34.1
1984...	135.8	56.6	55.1	1.5	27.1	15.4	3.1	8.6	12.5	4.8	34.8
1985...	128.1	59.1	57.5	1.6	21.3	10.8	3.1	7.4	8.8	4.4	34.5
						KAUAI					
1981...	18.4	7.9	7.4	.5	2.3	1.1	.2	1.0	1.7	.5	6.0
1982...	17.0	7.2	6.8	.4	2.6	1.2	.2	1.2	1.9	.5	4.8
1983...	18.3	7.0	6.5	.5	3.2	1.3	.3	1.6	2.7	.4	5.0
1984...	16.0	6.3	5.8	.5	2.9	1.4	.2	1.3	2.2	.4	4.2
1985...	14.4	5.7	5.2	.5	2.6	1.0	.3	1.3	2.0	.3	3.8
						MAUI					
1981...	38.7	16.3	15.1	1.2	6.8	3.1	.5	3.2	4.7	1.2	9.7
1982...	39.5	16.0	14.9	1.1	7.4	3.0	.5	3.9	5.6	1.2	9.3
1983...	36.3	15.7	14.6	1.1	5.3	2.4	.6	2.3	3.5	1.4	10.4
1984...	35.0	15.9	14.9	1.0	5.7	2.3	.6	2.8	3.4	1.3	8.7
1985...	33.9	15.1	14.1	1.0	5.7	2.4	.5	2.8	3.0	1.0	9.1
						MOLOKAI/LANAI					
1981...	7.2	3.8	3.8	0	.8	.4	0	.4	.5	.2	1.9
1982...	6.5	3.7	3.7	0	.5	.3	0	.2	.2	.2	1.9
1983...	6.4	3.7	3.7	0	.7	.4	0	.3	.4	.2	1.4
1984...	5.9	3.5	3.5	0	.4	.3	0	.1	.2	.2	1.6
1985...	4.4	2.7	2.7	0	.3	.2	0	.1	.2	.2	1.0
						OAHU					
1981...	28.5	11.6	1.7	9.9	6.9	.3	3.4	3.2	5.3	.2	4.5
1982...	32.7	11.3	1.8	9.5	9.2	.5	4.0	4.7	7.8	.2	4.2
1983...	35.7	11.7	2.4	9.3	7.6	.6	3.3	3.7	10.2	.4	5.8
1984...	33.3	11.0	1.6	9.4	8.7	.3	3.3	5.1	8.1	.2	5.3
1985...	37.2	11.4	2.5	8.9	10.4	.6	2.3	7.5	8.7	.4	6.3

[1] State totals may not add due to rounding.

CATTLE: Number of operations, January 1, by size group, by islands, 1980-84[1]

Year	Hawaii		Kauai/Niihau		Maui		Molokai		Oahu		State	
	Total	20+ cattle	Total	20+ cattle	Total	20+ cattle	Total	20+ cattle	Total	20+ cattle	Total	20+ cattle
	Number											
1980.....	[2]395	210	[2]165	80	190	90	20	10	80	50	[2]850	440
1981.....	[2]425	[2]220	[2]175	[2]80	[2]195	80	[2]25	10	[2]80	[2]50	[2]900	[2]440
1982.....	[2]490	[2]230	[2]190	[2]85	[2]200	85	[2]30	10	[2]90	[2]50	[2]1,000	[2]460
1983.....	[2]450	[2]215	[2]180	[2]75	[2]205	80	[2]30	10	[2]85	[2]50	[2]950	[2]430
1984.....	395	205	165	70	190	80	25	10	75	45	850	410

[1] Difference between "Total" and "20+" is operations having 1-19 head of cattle (dairy and/or beef).
[2] Revised.

CATTLE AND CALVES: Number sold, pounds, price, and value, by islands, 1980-84

Year	Number sold[1]	Pounds sold (live weight)[2]	Farm price (live weight)[3]	Value of sales
	1,000 head	1,000 pounds	Dollars per hundredweight	1,000 dollars
		STATE		
1980.....	55	52,475	53.50	28,074
1981.....	56	52,215	54.40	28,405
1982.....	56	52,910	52.20	27,619
1983.....	60	59,100	49.60	29,308
1984.....	65	60,600	46.40	28,101
		HAWAII		
1980.....	34.5	33,153	54.20	17,973
1981.....	35.5	33,113	54.50	18,059
1982.....	37.7	36,211	52.20	18,907
1983.....	38.0	38,188	49.30	18,831
1984.....	43.0	39,802	45.50	18,126
		KAUAI		
1980.....	6.0	5,765	54.10	3,118
1981.....	4.6	4,266	53.80	2,295
1982.....	3.9	3,629	52.70	1,913
1983.....	4.5	4,143	51.60	2,139
1984.....	4.3	3,988	51.20	2,041
		MAUI		
1980.....	10.6	9,510	52.90	5,033
1981.....	10.3	9,161	55.30	5,067
1982.....	10.0	8,626	53.40	4,603
1983.....	11.8	10,850	52.10	5,655
1984.....	12.0	11,134	48.20	5,364
		MOLOKAI		
1980.....	1.3	1,124	48.70	547
1981.....	2.4	2,352	56.60	1,331
1982.....	2.7	2,710	53.10	1,440
1983.....	2.3	2,446	50.60	1,238
1984.....	3.0	3,056	49.90	1,525
		OAHU		
1980.....	2.6	2,923	48.00	1,403
1981.....	3.2	3,323	49.70	1,653
1982.....	1.7	1,734	43.60	756
1983.....	3.4	3,473	41.60	1,445
1984.....	2.7	2,620	39.90	1,045

[1] Includes custom slaughter for home use on farms where produced and out-of-State sales of cattle and calves; but, excludes interfarm sales. State totals may not add due to rounding.
[2] Excludes custom slaughter for use on farms where produced.
[3] Prices are equivalent delivered slaughterhouse for sales on island of production and delivered shippers' dock for interisland and out-of-State sales.

CATTLE: Number of feedlot slaughter cattle sold, pounds, price, and value, by islands, 1980-84[1]

Year	Number sold[2]	Pounds sold (live weight)[3]	Farm price (live weight)	Value of sales
	1,000 head	1,000 pounds	Dollars per hundredweight	1,000 dollars
		STATE		
1980	26.8	27,592	59.80	16,486
1981	29.2	29,449	60.10	17,711
1982	29.4	30,428	57.90	17,624
1983	31.9	35,408	54.90	19,439
1984	**33.8**	**36,245**	**51.80**	**18,781**
		HAWAII		
1980	17.6	18,439	59.50	10,971
1981	20.2	20,572	59.90	12,323
1982	22.0	23,131	57.80	13,370
1983	22.8	25,669	54.60	14,015
1984	**23.3**	**25,381**	**51.30**	**13,017**
		KAUAI/NIIHAU		
1980	2.8	2,851	59.80	1,706
1981	1.0	1,075	59.10	635
1982	.9	991	55.70	552
1983	.9	992	52.50	521
1984	**1.0**	**1,098**	**49.30**	**541**
		MAUI		
1980	5.3	5,149	60.60	3,120
1981	5.5	5,169	61.40	3,174
1982	4.4	3,993	60.50	2,416
1983	5.8	5,871	57.50	3,376
1984	**6.4**	**6,406**	**54.50**	**3,493**
		MOLOKAI		
1980	.4	413	59.30	245
1981	1.7	1,790	59.50	1,065
1982	1.9	2,058	55.10	1,134
1983	1.6	1,828	52.80	965
1984	**2.4**	**2,614**	**51.50**	**1,346**
		OAHU		
1980	.7	740	60.00	444
1981	.8	843	61.00	514
1982	.2	255	59.60	152
1983	.8	1,048	53.60	562
1984	**.7**	**746**	**51.50**	**384**

[1] Animals fattened on grain or other concentrates which produce a carcass expected to grade good or better.
[2] Includes custom slaughter for home use on farms where produced but excludes interfarm sales.
[3] Excludes custom slaughter for use on farms where produced.

CATTLE: Number of range and other slaughter cattle sold, pounds, price, and value, by islands, 1980-84[1]

Year	Number sold[2]	Pounds sold (live weight)[3]	Farm price (live weight)	Value of sales
	1,000 head	1,000 pounds	Dollars per hundredweight	1,000 dollars
		STATE		
1980	28.2	24,883	46.60	11,588
1981	26.8	22,766	47.00	10,694
1982	26.6	22,482	44.50	9,995
1983	28.1	23,692	41.70	9,869
1984	**31.2**	**24,355**	**38.30**	**9,320**
		HAWAII		
1980	16.9	14,714	47.60	7,002
1981	15.3	12,541	45.70	5,736
1982	15.7	13,080	42.30	5,537
1983	15.2	12,519	38.50	4,816
1984	**19.7**	**14,421**	**35.40**	**5,109**
		KAUAI/NIIHAU		
1980	3.2	2,914	48.40	1,412
1981	3.6	3,191	52.00	1,660
1982	3.0	2,638	51.60	1,361
1983	3.6	3,151	51.30	1,618
1984	**3.3**	**2,890**	**51.90**	**1,500**
		MAUI		
1980	5.3	4,361	43.90	1,913
1981	4.8	3,992	47.40	1,893
1982	5.6	4,633	47.20	2,187
1983	6.0	4,979	45.80	2,279
1984	**5.6**	**4,728**	**39.60**	**1,871**
		MOLOKAI		
1980	.9	711	42.50	302
1981	.7	562	47.30	266
1982	.8	652	46.90	306
1983	.7	618	44.20	273
1984	**.6**	**442**	**40.50**	**179**
		OAHU		
1980	1.9	2,183	43.90	959
1981	2.4	2,480	45.90	1,139
1982	1.5	1,479	40.80	604
1983	2.6	2,425	36.40	883
1984	**2.0**	**1,874**	**35.30**	**661**

[1] Animals fattened primarily on grass and other roughage; may include some supplementary feeding of grain. Dairy cattle; calves included.
[2] Includes custom slaughter for home use on farms where produced but excludes interfarm sales.
[3] Excludes custom slaughter for use on farms where produced.

CATTLE: Commercial slaughter and marketings, by class, State of Hawaii, 1980-84

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
	Commercial slaughter[1]												
	Number of head -- 1,000 head[2]												
1980...	4.8	4.4	4.6	4.4	4.7	4.5	4.8	4.1	4.3	4.1	3.7	4.8	53.2
1981...	4.0	3.9	4.6	4.4	3.7	4.5	4.7	4.9	5.2	5.1	4.6	5.2	54.6
1982...	4.6	4.1	4.6	4.6	4.6	4.4	4.1	4.5	4.8	4.6	4.7	4.5	54.0
1983...	4.5	4.5	5.5	4.7	4.8	4.8	4.5	5.1	4.5	4.2	4.3	4.7	56.0
1984...	**4.9**	**4.8**	**4.5**	**4.5**	**4.4**	**4.8**	**5.8**	**5.1**	**4.0**	**5.1**	**4.7**	**4.9**	**57.6**
	Dressed weight -- 1,000 pounds												
1980...	2,512	2,352	2,460	2,441	2,468	2,424	2,522	2,173	2,273	2,150	1,942	2,483	28,200
1981...	2,032	2,026	2,394	2,285	1,910	2,344	2,418	2,511	2,720	2,646	2,351	2,676	28,313
1982...	2,342	2,055	2,334	2,392	2,320	2,298	2,129	2,377	2,699	2,506	2,576	2,499	28,527
1983...	2,488	2,490	3,060	2,584	2,662	2,610	2,441	2,895	2,573	2,408	2,419	2,651	31,280
1984...	**2,721**	**2,692**	**2,536**	**2,475**	**2,398**	**2,608**	**3,072**	**2,783**	**2,137**	**2,656**	**2,458**	**2,624**	**31,160**
	Marketings[3]												
	Feedlot steers and heifers, dressed weight -- 1,000 pounds												
1980...	1,669	1,497	1,374	1,473	1,271	1,229	1,285	1,098	1,063	1,077	924	1,188	15,148
1981...	1,137	951	1,170	1,188	902	1,322	1,410	1,563	1,750	1,672	1,426	1,677	16,168
1982...	1,521	1,234	1,354	1,436	1,412	1,254	1,209	1,337	1,635	1,397	1,441	1,475	16,705
1983...	1,560	1,617	1,825	1,449	1,843	1,599	1,577	1,878	1,547	1,469	1,480	1,595	19,439
1984...	**2,017**	**1,761**	**1,516**	**1,449**	**1,477**	**1,676**	**2,058**	**1,596**	**1,170**	**1,571**	**1,602**	**2,005**	**19,898**
	Range steers and heifers, dressed weight -- 1,000 pounds												
1980...	434	530	579	579	601	635	718	624	632	601	627	575	7,135
1981...	460	706	698	508	461	623	584	546	482	532	450	453	6,503
1982...	427	359	458	580	467	612	501	508	545	581	611	604	6,253
1983...	562	515	639	440	463	545	417	523	499	491	493	631	6,218
1984...	**530**	**407**	**433**	**527**	**408**	**400**	**506**	**534**	**462**	**528**	**402**	**467**	**5,604**
	Cows, dressed weight -- 1,000 pounds												
1980...	427	325	505	371	598	588	504	453	578	472	410	465	5,696
1981...	383	291	420	479	483	352	369	361	426	361	425	441	4,791
1982...	319	380	428	304	400	365	379	485	464	434	430	384	4,772
1983...	341	330	534	553	299	443	413	453	452	416	400	430	5,064
1984...	**465**	**446**	**438**	**407**	**423**	**439**	**515**	**485**	**415**	**514**	**448**	**447**	**5,442**
	Bulls, dressed weight -- 1,000 pounds												
1980...	55	73	75	91	71	45	88	70	73	74	49	66	830
1981...	84	110	138	142	96	80	88	73	94	113	82	104	1,204
1982...	119	126	137	115	84	110	83	90	98	138	138	80	1,318
1983...	83	87	121	201	116	82	93	100	134	91	104	52	1,264
1984...	**90**	**121**	**124**	**104**	**100**	**101**	**118**	**116**	**83**	**90**	**62**	**63**	**1,172**

[1] Includes custom slaughter for home use. To convert dressed weight to live weight, divide dressed weight by 0.549 or multiply by a factor of 1.8215.
[2] Sum of monthly estimates may not add to annual total due to rounding.
[3] Excludes custom slaughter for home use and calves shipped out-of-State, but includes on farm sales.

CATTLE: Farm price, by class, State of Hawaii, 1980-84[1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
	Feedlot steers and heifers, dressed weight -- Cents per pound												
1980...	107.0	104.5	108.5	106.0	108.0	107.0	110.5	110.5	111.0	111.0	110.0	109.5	108.5
1981...	110.5	110.0	107.5	107.5	114.0	113.5	114.5	110.0	109.5	108.0	105.5	106.5	109.5
1982...	104.5	105.5	107.5	110.0	113.0	114.0	108.0	106.5	104.5	97.5	99.0	97.0	105.5
1983...	98.5	98.0	103.5	109.5	107.5	105.5	102.5	98.0	93.5	94.0	92.5	95.5	100.0
1984...	98.5	99.5	98.5	99.5	97.0	94.5	94.0	94.0	93.5	90.5	88.0	89.5	95.0
	Range steers and heifers, dressed weight -- Cents per pound												
1980...	87.0	89.0	89.5	88.0	91.5	90.5	94.0	90.5	90.0	90.0	89.5	91.0	90.0
1981...	94.0	90.5	88.0	91.0	94.0	92.5	95.0	95.0	93.5	92.5	90.5	92.5	92.5
1982...	98.5	95.5	97.5	99.0	93.0	93.0	88.0	87.5	86.5	87.0	78.5	81.0	90.0
1983...	86.0	86.0	84.5	88.0	87.5	86.5	84.5	85.5	86.5	85.0	87.0	87.0	86.0
1984...	80.5	80.0	78.5	75.5	77.0	83.0	80.0	82.0	80.0	79.5	78.5	81.5	79.5
	Cows, dressed weight -- Cents per pound												
1980...	77.5	76.5	77.5	79.0	78.5	77.5	79.0	78.5	80.5	79.0	77.5	78.5	78.5
1981...	79.0	80.5	77.5	77.0	78.0	77.0	77.5	78.0	76.0	76.0	75.0	74.5	77.0
1982...	76.0	73.5	73.5	73.5	71.0	74.0	69.0	69.5	69.5	70.5	66.5	66.5	71.0
1983...	66.0	65.5	65.0	65.0	64.0	66.0	65.5	63.5	62.0	61.5	62.0	61.5	64.0
1984...	64.0	64.5	61.0	60.5	58.0	60.5	59.0	57.0	61.0	52.5	55.5	55.5	59.0
	Bulls, dressed weight -- Cents per pound												
1980...	82.5	85.5	85.0	84.5	86.0	84.5	85.5	84.0	83.5	85.0	84.0	83.0	84.5
1981...	83.5	84.0	83.5	83.5	83.5	83.0	83.0	82.5	82.5	83.0	83.0	82.5	83.0
1982...	81.0	80.0	79.5	80.0	79.5	77.0	79.0	78.5	76.5	77.5	75.0	76.0	78.5
1983...	73.0	74.0	74.0	73.0	73.0	75.5	73.5	72.0	72.0	73.0	71.5	73.0	73.0
1984...	71.5	71.5	71.0	69.5	66.0	67.0	66.5	64.5	66.0	63.5	61.0	64.5	67.5
	All cattle, dressed weight -- Cents per pound												
1980...	98.5	97.0	97.5	97.5	96.5	91.5	99.0	98.0	97.5	98.0	96.5	98.0	97.5
1981...	100.0	98.0	95.0	96.0	99.0	101.5	103.0	101.5	101.0	99.5	96.5	98.0	99.0
1982...	98.5	96.5	98.0	101.5	101.0	100.5	95.5	94.0	94.5	89.5	88.0	88.0	95.0
1983...	90.5	90.5	92.0	93.5	98.0	94.0	92.5	89.5	86.0	86.0	85.5	87.5	90.5
1984...	88.5	90.0	87.5	87.0	85.5	86.0	85.0	84.0	83.5	80.5	80.0	82.0	85.0

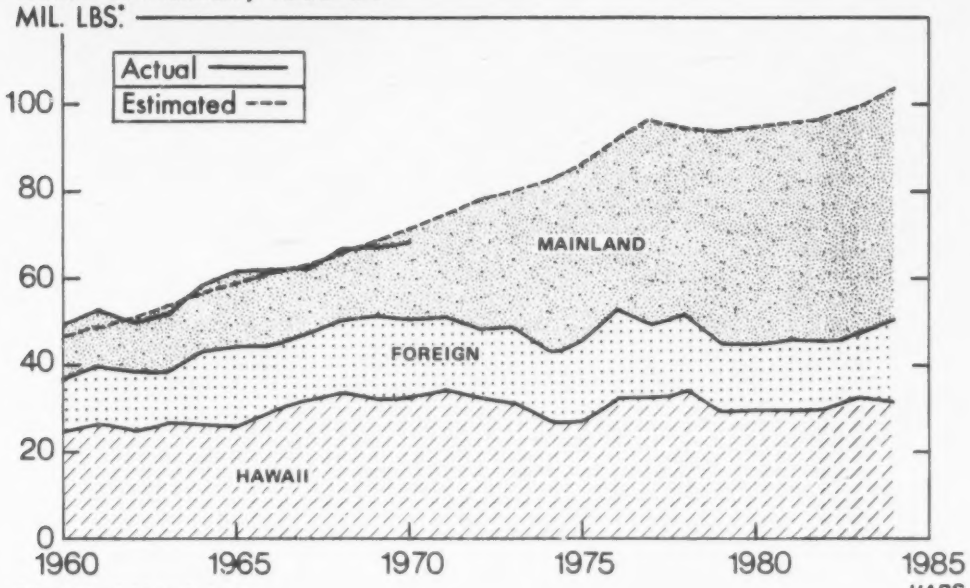
[1] Prices are for commercial slaughter cattle.

CATTLE AND CALVES: Inventory and disposition, State of Hawaii, 1980-84

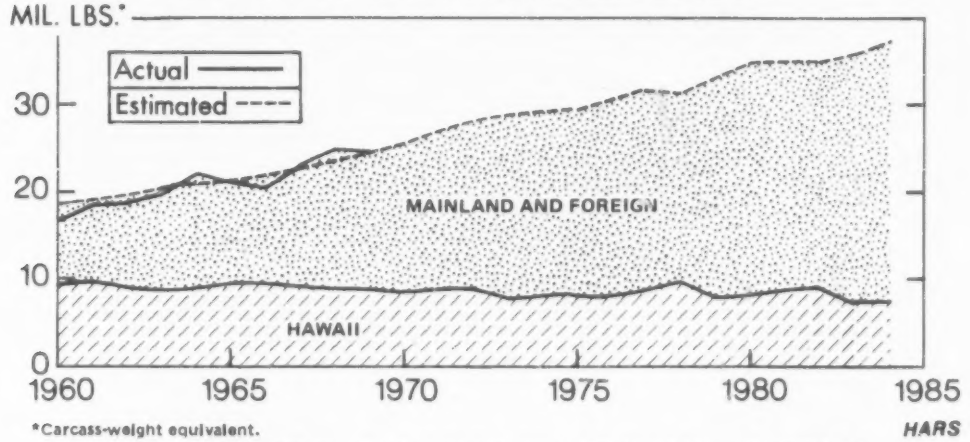
Year	Inventory beginning January 1	Calf crop	Inshipments	Marketings	Farm slaughter	Deaths	Inventory January 1 following year
	1,000 head						
1980...	213	72	*	55	1	9	220
1981...	220	72	*	56	1	7	228
1982...	228	71	*	56	2	11	230
1983...	230	70	*	60	2	12	226
1984...	226	71	*	65	1	13	218

* = Less than 50.

MARKET SUPPLY: Beef and Veal, State of Hawaii, 1960-84



MARKET SUPPLY: Pork, State of Hawaii, 1960-84



MARKET SUPPLY: Beef and veal, pork, State of Hawaii, 1974-84

Year	Beef and veal				Pork			
	Mainland	Foreign	Hawaii[1]	Total[2]	Mainland	Foreign	Hawaii	Total[2]
	1,000 pounds (carcass weight equivalent)							
1974...	40,237	15,636	27,467	83,340	21,795	24	7,953	29,772
1975...	41,473	17,756	27,000	86,229	21,543	3	7,910	29,456
1976...	39,839	20,414	32,320	92,573	23,287	4	7,781	31,072
1977...	44,645	17,493	32,325	94,463	22,399	2	8,762	31,163
1978...	43,553	17,146	33,544	94,243	22,076	0	9,869	31,945
1979...	47,453	16,030	29,325	92,808	25,796	45	7,785	33,626
1980...	50,348	15,202	28,809	94,359	26,685	133	8,012	34,830
1981...	49,622	16,504	28,666	94,792	25,827	97	8,708	34,632
1982...	51,709	16,273	29,048	97,030	26,392	27	8,557	34,976
1983...	53,259	14,555	31,985	99,799	27,505	802	7,693	36,000
1984...	55,724	16,548	32,116	104,388	28,739	875	7,878	37,492

1 Excludes slaughter cattle and calves shipped out-of-State.
2 After 1971 total supply was estimated and mainland inshipments derived. See page 100 for detailed explanation of the estimating procedure.

MILK: Number of operations, number of milk cows, production, sales, price, and value, by islands, 1980-84

Year	Operations[1]		Annual average milk cows	Milk per cow	Production[2]	Sold[2]	Average price	Value of sales
	Total	10+ milk cows						
	Number			Pounds	Million pounds		Dollars per hundredweight	1,000 dollars
STATE								
1980...	[3]80	24	13,000	11,692	152.0	149.4	18.12	27,071
1981...	[3]80	24	12,700	11,811	150.0	147.9	20.50	30,320
1982...	[3]90	23	12,500	11,520	144.0	106.4	20.59	21,908
1983...	[3]90	23	12,500	11,920	149.0	143.7	20.09	28,869
1984...	**90**	**22**	**12,100**	**12,231**	**148.0**	**146.0**	**20.06**	**29,288**
HAWAII/KAUAI/MAUI[4]								
1980...	[3]56	6	3,200	10,031	32.1	30.0	17.84	5,352
1981...	[3]56	7	3,100	10,710	33.2	31.3	19.76	6,184
1982...	[3]66	7	3,100	10,710	33.2	30.8	20.20	6,221
1983...	[3]66	7	3,100	10,840	33.6	31.5	20.25	6,373
1984...	**66**	**6**	**3,000**	**11,833**	**35.5**	**33.8**	**20.13**	**6,803**
OAHU								
1980...	24	18	9,800	12,235	119.9	119.4	18.19	21,719
1981...	24	17	9,600	12,167	116.8	116.6	20.70	24,136
1982...	24	16	9,400	11,785	110.8	75.6	20.75	15,687
1983...	24	16	9,400	12,275	115.4	112.2	20.05	22,496
1984...	**24**	**16**	**9,100**	**12,364**	**112.5**	**112.2**	**20.04**	**22,485**

[1] At end of year. Difference between "Total" and "10+" is operations having 1-9 milk cows.
[2] Difference between "Production" and "Sold" is milk used on farms for human consumption, fed to calves or other uses.
[3] Revised.
[4] Kauai, Maui, and Molokai combined with Hawaii to avoid disclosure of individual operations.

MILK-FEED RATIO, State of Hawaii, 1980-84[1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
	Pounds											
1980...	1.82	1.76	1.72	1.71	1.69	1.64	1.69	1.75	1.75	1.67	1.63	1.58
1981...	1.51	1.68	1.64	1.65	1.64	1.62	1.67	1.66	1.79	1.83	1.82	1.78
1982...	1.81	1.78	1.62	1.73	1.77	1.72	1.66	1.72	1.79	1.79	1.82	1.70
1983...	1.74	1.77	1.76	1.69	1.64	1.52	1.52	1.56	1.66	1.67	1.64	1.57
1984...	**1.57**	**1.63**	**1.59**	**1.52**	**1.61**	**1.62**	**1.50**	**1.50**	**1.76**	**1.81**	**1.72**	**1.71**

[1] Pounds of 20-percent dairy feed equal in value to 1 pound of whole milk.

MILK: Number of cows, milk production, and price, State of Hawaii, 1980-84

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
	Average number of milk cows on hand during month -- 1,000 head												
1980..	13.0	13.0	13.0	12.9	12.8	12.9	13.0	13.0	13.1	13.1	13.0	13.1	13.0
1981..	13.0	12.9	12.9	12.7	12.7	12.7	12.5	12.5	12.5	12.6	12.7	12.7	12.7
1982..	12.6	12.6	12.5	12.4	12.4	12.3	12.4	12.4	12.4	12.4	12.4	12.4	12.5
1983..	12.5	12.5	12.5	12.5	12.6	12.6	12.6	12.4	12.4	12.5	12.4	12.4	12.5
1984..	12.3	12.3	12.3	12.2	12.1	12.0	11.9	12.0	12.1	12.0	12.1	12.0	12.1
	Average monthly production per all cows in herd -- Pounds												
1980..	975	955	1,040	1,025	1,095	1,025	990	955	895	915	900	935	11,692
1981..	970	905	1,015	1,030	1,070	1,000	1,030	990	935	950	930	975	11,811
1982..	975	905	1,015	1,015	1,040	975	985	950	910	960	910	935	11,520
1983..	975	920	1,050	1,015	1,055	1,000	1,025	1,010	960	960	945	1,015	11,920
1984..	1,050	990	1,075	1,065	1,115	1,050	1,060	1,035	925	935	940	985	12,231
	Milk production -- Million pounds												
1980..	12.7	12.4	13.5	13.2	14.0	13.2	12.9	12.4	11.7	12.0	11.7	12.3	152
1981..	12.6	11.7	13.1	13.1	13.6	12.7	12.9	12.4	11 7	12.0	11.8	12.4	150
1982..	12.3	11.4	12.7	12.6	12.9	12.0	12.2	11.8	11.3	11.9	11.3	11 6	144
1983..	12.2	11.5	13.1	12.7	13.3	12.6	12.9	12.5	11.9	12.0	11.7	12.6	149
1984..	12.9	12.2	13.2	13.0	13.5	12.6	12.6	12.4	11.2	11.2	11.4	11.8	148
	Average price for milk sold to plants -- Dollars per hundredweight												
1980..	17.84	17.64	17.58	17.55	17.28	16.82	17.76	18.84	19.27	19.19	19.18	18.91	18.12
1981..	19.24	20.97	20.49	20.57	20.56	19.84	20.05	20.32	21.05	21.10	20.95	20.46	20.50
1982..	20.87	20.90	19.04	20.32	20.78	20.63	20.36	20.59	20.99	21.00	20.97	20.45	20.59
1983..	20.92	20.75	20.67	20.26	20.10	18.66	18.57	19.05	20.69	20.88	20.86	19.96	20.09
1984..	20.83	20.78	20.27	19.80	19.58	19.79	19.41	18.78	20.67	20.79	20.16	20.05	20.05

HONEY: Number of operations, colonies, honey and beeswax production, price, and value, State of Hawaii, 1980-84

Year	Operations	Number of colonies	Yield per colony (honey)	Production		Average price[1]		Value of production	
				Honey (extracted)	Beeswax	Honey (extracted)	Beeswax	Honey	Beeswax
	Number	Thousands	Pounds	1,000 pounds		Cents per pound		1,000 dollars	
1980...	27	7	123	861	20	49.6	172.0	427	34
1981...	28	7	125	875	16	53.3	186.0	466	30
1982...	30	8	115	920	14	56.5	210.0	520	29
1983...	27	9	145	1,305	21	58.1	230.0	758	48
1984...	26	9	123	1,107	17	56.1	195.0	621	33

[1] Average of unprocessed bulk and processed packaged honey sold at wholesale and processed packaged honey sold at retail by farmers.

HOGS AND PIGS: December 1 inventory by classes and weight, by islands, 1980-84

Year	All hogs and pigs	Breeding	Market				
			Total	Under 60 lbs.	60-119 lbs.	120-179 lbs.	180 lbs. and over
	1,000 head						
				STATE[1]			
1980...	57	9	48	22	13	10	3
1981...	55	8	47	22	13	9	3
1982...	49	7	42	19	12	8	3
1983...	48	7	41	19	11	8	3
1984...	47	7	40	18	11	8	3
				HAWAII			
1980...	6.5	1.1	5.4	2.8	1.7	.8	.1
1981...	4.8	.7	4.1	2.1	1.3	.6	.1
1982...	3.8	.6	3.2	1.7	.9	.5	.1
1983...	3.2	.5	2.7	1.2	1.0	.4	.1
1984...	3.4	.6	2.8	1.6	.5	.5	.2
				KAUAI			
1980...	4.5	.8	3.7	1.7	1.0	.7	.3
1981...	5.2	.8	4.4	2.4	1.2	.6	.2
1982...	4.3	.7	3.6	1.8	1.2	.5	.1
1983...	3.5	.6	2.9	1.6	.9	.3	.1
1984...	3.9	.7	3.2	1.6	.7	.8	.1
				MAUI			
1980...	9.9	1.5	8.4	3.3	2.6	1.7	.8
1981...	10.1	1.5	8.6	3.5	2.7	1.8	.6
1982...	8.2	1.2	7.0	3.1	2.0	1.4	.5
1983...	8.7	1.3	7.4	3.3	2.2	1.4	.5
1984...	7.5	1.1	6.4	2.6	1.8	1.4	.6
				MOLOKAI/LANAI			
1980...	.8	.2	.6	.3	.1	.1	.1
1981...	.8	.2	.6	.4	.1	.1	*
1982...	.6	.1	.5	.2	.2	.1	*
1983...	.9	.2	.7	.5	.1	.1	*
1984...	.7	.1	.6	.2	.2	.1	.1
				OAHU			
1980...	35.4	5.6	29.8	13.8	7.6	6.2	2.2
1981...	34.5	5.0	29.5	13.5	7.9	6.3	1.8
1982...	32.1	4.5	27.6	12.6	7.8	5.3	1.9
1983...	31.7	4.4	27.3	12.3	7.2	5.7	2.1
1984...	31.5	4.5	27.0	12.0	7.4	5.2	2.4

* = Less than 500.
[1] State totals may not add due to rounding.

HOGS: Number of operations, pig crop, number and pounds sold, price, and value, by islands, 1980-84

Year	Number of operations[1]		Pig crop[2]		Number sold[3]	Pounds sold (live weight)[4]	Farm price (live weight)	Value of sales
	Total	10+	December-May	June-November				
	Number		1,000 head			1,000 pounds	Dollars per hundredweight	1,000 dollars
				STATE[5]				
1980...	650	430	39	37	63	10,683	69.80	7,457
1981...	650	420	38	40	69	11,610	72.20	8,382
1982...	650	410	35	36	67	11,409	74.20	8,465
1983...	650	420	32	35	59	10,257	75.80	7,775
1984...	**650**	**420**	**31**	**35**	**60**	**10,504**	**77.00**	**8,088**
				HAWAII				
1980...	80	60	4.1	4.1	6.8	1,239	72.00	892
1981...	70	55	3.7	3.3	7.6	1,263	75.50	954
1982...	75	60	2.6	2.8	5.4	954	79.50	758
1983...	85	50	2.7	2.8	5.4	975	80.50	785
1984...	**85**	**55**	**2.4**	**2.9**	**4.7**	**868**	**84.00**	**729**
				KAUAI				
1980...	110	60	3.6	3.6	5.6	864	78.00	674
1981...	115	60	3.6	3.8	5.4	938	79.50	746
1082...	115	60	2.9	2.8	5.3	848	80.50	683
1983...	120	50	2.3	2.8	4.9	763	83.00	633
1984...	**125**	**55**	**2.6**	**3.0**	**4.7**	**791**	**84.50**	**668**
				MAUI/MOLOKAI				
1980...	110	75	9.0	7.3	14.4	2,470	75.50	1,865
1981...	110	70	8.7	8.9	15.8	2,787	77.00	2,146
1982...	100	65	7.8	7.1	15.3	2,888	78.50	2,110
1983...	115	85	6.8	7.4	13.4	2,402	80.00	1,922
1984...	**105**	**70**	**6.0**	**6.9**	**13.3**	**2,425**	**80.00**	**1,940**
				OAHU				
1980...	350	235	22.5	21.8	36.2	6,110	66.00	4,026
1981...	355	235	22.3	23.8	40.0	6,622	68.50	4,536
1982...	360	225	21.7	23.3	41.4	6,919	71.00	4,914
1983...	330	235	19.7	21.2	35.4	6,117	72.50	4,435
1984...	**335**	**240**	**19.9**	**22.3**	**37.5**	**6,420**	**74.00**	**4,751**

[1] Difference between "Total" and "10+" is operations having 1-9 hogs; current year number of operations is preliminary.
[2] Number of pigs born during the 6-month period which were still on hand or were sold.
[3] Excludes interfarm sales; includes custom slaughter for home use; includes direct sales on farms to consumers.
[4] Excludes custom slaughter for use on farms where produced and interfarm sales.
[5] State totals may not add for number of operations and pig crop due to rounding. Sales and value data are for the 12-month period, December of the previous year through November of the following year.

HOGS: Commercial slaughter and farm price, State of Hawaii, 1980-84

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
	Number of head -- 1,000 head[1] [2]												
1980...	2.9	3.2	3.6	3.6	3.7	3.6	3.7	3.6	3.4	3.5	3.4	4.9	43.1
1981...	3.2	3.1	3.5	3.2	3.5	3.8	3.6	3.6	3.3	3.7	3.5	4.7	42.8
1982...	3.2	3.2	3.6	3.8	3.5	3.7	3.8	3.6	3.3	3.4	3.3	4.6	43.0
1983...	3.2	3.3	3.6	3.5	3.6	3.7	3.7	3.8	3.6	3.5	3.5	4.9	44.0
1984...	3.4	3.3	3.6	3.6	3.6	3.7	3.7	3.7	3.3	3.7	3.8	4.7	44.1
	Pounds slaughtered -- 1,000 pounds, dressed weight[1] [3]												
1980...	401	443	519	518	526	492	524	491	476	488	486	668	6,032
1981...	447	433	484	459	518	544	525	490	466	544	501	674	6,085
1982...	463	456	521	530	490	512	516	482	442	456	477	687	6,032
1983...	481	471	495	501	516	501	515	503	497	497	476	672	6,125
1984...	484	462	505	514	524	524	518	495	442	552	534	676	6,230
	Farm price -- Cents per pound, dressed weight[4]												
1980...	93.0	93.0	92.5	92.5	93.0	91.5	89.5	94.5	94.5	95.0	95.0	94.5	93.0
1981...	95.0	95.5	97.0	97.0	95.0	96.0	96.0	97.5	97.5	97.5	97.5	99.0	96.5
1982...	97.0	97.5	97.5	98.0	96.5	99.0	99.0	99.5	100.5	102.0	101.0	101.0	99.0
1983...	102.0	101.5	100.0	99.5	101.5	100.5	101.5	99.5	101.5	102.0	103.5	102.5	101.0
1984...	99.5	104.5	101.5	102.5	103.0	101.5	102.5	102.5	104.0	105.0	102.5		102.5

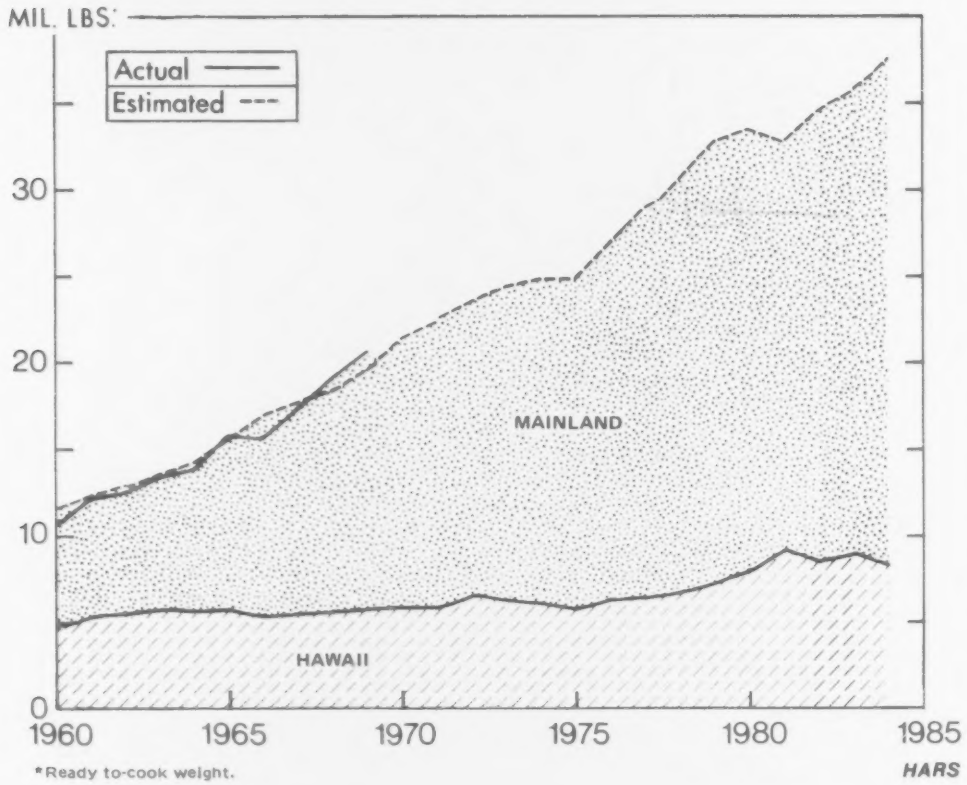
[1] Excludes non-inspected farm slaughter; includes custom slaughter and live hog inshipments from the mainland for slaughter.
[2] Sum of monthly estimates may not add to annual total due to rounding.
[3] To convert dressed weight to live weight: Divide by 0.75 or multiply by a factor of 1.3333.
[4] Annual average price is for marketing year December-November.

HOGS AND PIGS: Inventory and disposition, State of Hawaii, 1980-84

Year	Inventory December 1 previous year	Annual pig crop	Inshipments	Marketings	Farm slaughter	Deaths	Inventory December 1
	1,000 head						
1980...	53	76	*	63	3	6	57
1981...	57	78	*	69	4	7	55
1982...	55	71	*	67	4	6	49
1983...	49	67	*	59	3	6	48
1984...	48	66	*	60	3	4	47

* = Less than 500 head.

MARKET SUPPLY: Chickens and Broilers, State of Hawaii, 1960-84

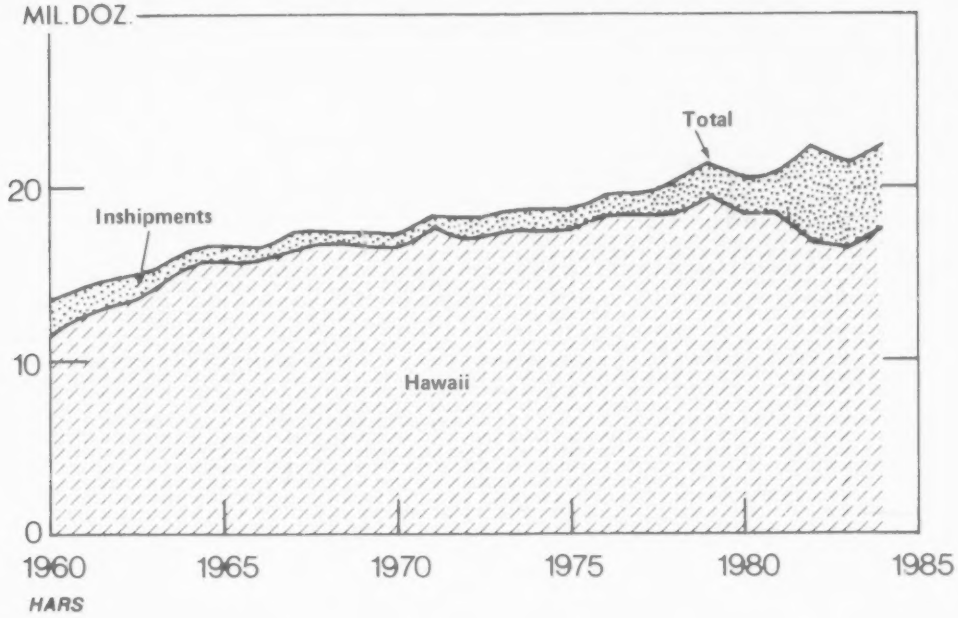


MARKET SUPPLY: Poultry meat, State of Hawaii, 1975-84

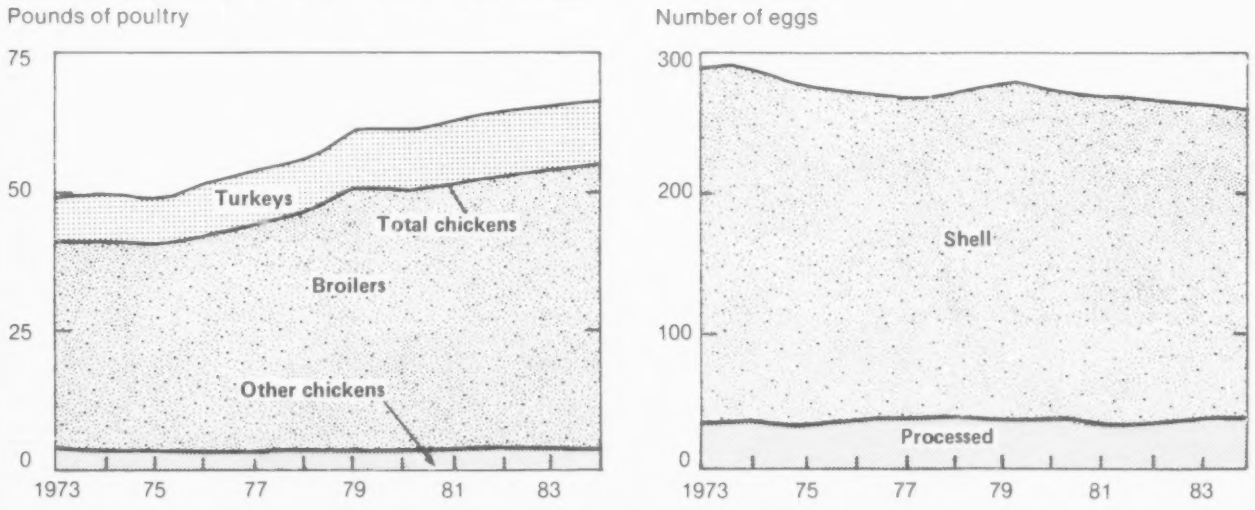
Commodity	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
	1,000 pounds (ready-to-cook weight)									
Broilers:										
Inshipments	19,242	21,016	22,643	23,682	25,795	25,455	23,850	26,357	26,932	29,785
Hawaii	4,697	5,200	5,180	5,816	5,896	6,569	7,673	7,534	8,023	7,346
Total	23,939	26,216	27,823	29,498	31,691	32,024	31,523	33,891	34,955	37,131
Other chickens:										
Hawaii	962	921	978	970	1,240	1,321	1,373	1,037	924	756
Total chickens:										
Inshipments	19,242	21,016	22,643	23,682	25,795	25,455	23,850	26,357	26,932	29,785
Hawaii	5,659	6,121	6,158	6,786	7,136	7,890	9,046	8,571	8,947	8,102
Total[1]	24,901	27,137	28,801	30,468	32,931	33,345	32,896	34,928	35,879	37,887
Turkeys:										
Inshipments	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA = Not available.
[1] Beginning 1970 total supply was estimated and mainland inshipments derived. See page 100 for detailed explanation of the estimating procedure.

MARKET SUPPLY: Eggs, State of Hawaii, 1960-84



U.S. Per Capita Consumption of Poultry and Eggs



1983 preliminary, 1984 forecast. Poultry is ready-to-cook weight. Processed eggs converted to shell-egg equivalent.

USDA

MARKET SUPPLY: Eggs, State of Hawaii, 1980-84

Commodity	1980	1981	1982	1983	1984
	1,000 dozens				
Eggs, shell:					
Inshipments	2,371	2,464	5,400	5,158	4,810
Hawaii	18,375	18,442	16,850	16,442	17,475
Total	20,746	20,906	22,250	21,600	22,285

Source of Inshipment data: Market News Service, Hawaii Department of Agriculture.

CHICKENS: December 1 inventory by class, by islands, 1980-84

Year	All chickens (excluding broilers)	Number of layers			Non-laying pullets		Other chickens (excluding broilers)
		Hens 1 year +	Pullets under 1 year	Total	Over 3 months	Under 3 months	
	Thousands						
				STATE			
1980.....	1,314	593	414	1,007	175	132	*
1981.....	1,242	538	401	939	136	167	*
1982.....	1,148	589	260	849	115	184	*
1983.....	1,140	577	352	929	106	105	*
1984.....	1,195	559	385	944	128	123	*
				HAWAII/KAUAI/MAUI/MOLOKAI[1]			
1980.....	196	81	66	147	24	25	*
1981.....	159	69	57	126	17	16	*
1982.....	177	83	68	151	12	14	*
1983.....	179	81	69	150	15	14	*
1984.....	172	73	83	156	5	11	*
				OAHU			
1980.....	1,118	512	348	860	151	107	*
1981.....	1,083	469	344	813	119	151	*
1982.....	971	506	192	698	103	170	*
1983.....	961	496	283	779	91	91	*
1984.....	1,023	486	302	788	123	112	*

* = Less than 500.
[1] Kauai, Maui, and Molokai combined with Hawaii to avoid disclosure of individual operations.

EGG-TYPE PULLET CHICK PLACEMENTS, State of Hawaii, 1980-84 [1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
	1,000 chicks												
1980...	58	59	37	34	95	30	131	13	59	58	13	87	674
1981...	94	24	60	51	52	72	19	58	71	81	27	41	650
1982...	85	17	83	14	40	92	16	74	54	52	94	20	641
1983...	68	25	97	31	17	100	40	74	23	55	27	36	593
1984...	80	24	78	10	40	79	29	86	4	79	53	42	638

[1] Inshipments plus local hatch.

CHICKENS: December 1 number of operations, sales, price, and value, by islands, 1980-84[1]

Year	Operations	Number sold	Pounds sold (live weight)[2]	Average price (live weight)[3]	Value of sales
	Number	Thousands	1,000 pounds	Cents per pound	1,000 dollars
			STATE		
1980.....	60	510	1,887	12.7	240
1981.....	55	530	1,961	12.4	243
1982.....	55	436	1,482	11.3	167
1983.....	55	377	1,320	13.6	180
1984.....	**55**	**300**	**1,080**	**18.0**	**194**
			HAWAII/KAUAI/MAUI/MOLOKAI[4]		
1980.....	34	57	202	26.7	54
1981.....	32	66	240	30.3	73
1982.....	34	66	232	35.5	82
1983.....	36	72	243	33.7	82
1984.....	**35**	**61**	**214**	**37.4**	**80**
			OAHU		
1980.....	26	453	1,685	11.0	186
1981.....	23	464	1,721	9.9	170
1982.....	21	370	1,250	6.8	85
1983.....	19	305	1,077	9.1	98
1984.....	**20**	**239**	**866**	**13.2**	**114**

[1] Data are for December-November marketing year.
[2] To convert live weight to ready-to-cook weight, multiply by a conversion factor of .70.
[3] Equivalent delivered processing plant.
[4] Kauai, Maui, and Molokai combined with Hawaii to avoid disclosure of individual operations.

CHICKENS: Slaughter and price, State of Hawaii, 1980-84[1]

Month	Number sold					Pounds sold (live weight)[2]					Average farm price (live weight)[3]				
	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984
	1,000 birds					1,000 pounds					Cents per pound				
December	42	35	28	33	**37**	162	139	93	110	**133**	13.5	15.0	14.0	11.5	**12.0**
January	44	41	39	20	**25**	164	141	137	74	**94**	15.0	13.5	9.0	14.0	**18.0**
February	39	45	46	55	**23**	149	161	144	192	**81**	13.0	14.0	9.0	13.5	**17.0**
March	27	48	37	36	**8**	102	179	131	125	**27**	13.0	14.5	12.0	11.5	**24.5**
April	35	38	33	32	**20**	132	162	128	104	**74**	12.5	13.0	14.0	12.5	**21.5**
May	42	52	19	34	**21**	159	198	62	119	**76**	12.5	12.5	20.5	14.5	**22.0**
June	16	50	38	44	**15**	54	181	133	160	**55**	18.0	14.0	13.5	14.5	**23.0**
July	37	42	50	37	**17**	127	150	176	133	**62**	15.0	12.0	9.5	14.5	**22.0**
August	37	48	31	28	**32**	135	179	100	101	**111**	13.5	10.0	11.5	13.0	**18.5**
September	49	45	59	25	**35**	195	166	190	87	**123**	12.5	9.5	10.0	14.5	**17.0**
October	91	36	16	15	**38**	317	129	58	53	**139**	9.0	10.5	12.0	14.5	**16.0**
November	51	50	40	18	**29**	191	176	130	62	**105**	13.0	10.0	9.0	16.5	**16.5**
Total or average	510	530	436	377	**300**	1,887	1,961	1,482	1,320	**1,080**	12.7	12.4	11.3	13.6	**18.0**

[1] Data are for December-November marketing year.
[2] To convert live weight to ready-to-cook weight, multiply by a conversion factor of .70.
[3] Equivalent delivered processing plant.

EGGS: December 1 number of operations, number of layers, production, sales, price, and value, by islands, 1980-84[1]

Year	Operations with layers		Average production of layers	Average production per layer	Production[3]	Average price[4]	Value of sales
	Total[2]	100+					
	---------- Number ----------		1,000 birds	Eggs	Million eggs	Cents per dozen	1,000 dollars
				STATE[5]			
1980...	60	26	1,035	214	220.5	75.7	13,910
1981...	55	24	980	226	221.3	82.2	15,159
1982...	55	21	914	221	202.2	86.3	14,542
1983...	55	19	855	231	197.3	85.4	14,041
1984...	55	21	939	223	209.7	88.9	15,535
				HAWAII/KAUAI/MAUI/MOLOKAI[6]			
1980...	34	7	141	209	29.4	87.5	2,143
1981...	32	7	128	223	28.6	97.5	2,322
1982...	34	7	135	208	28.1	101.5	2,382
1983...	36	8	143	225	32.2	98.0	2,629
1984...	35	8	143	224	32.0	102.0	2,726
				OAHU			
1980...	26	19	894	214	191.1	74.0	11,767
1981...	23	17	852	226	192.7	80.0	12,837
1982...	21	14	779	223	174.1	84.0	12,160
1983...	19	11	712	232	165.1	83.0	11,412
1984...	20	13	796	223	177.7	86.5	12,809

[1] Annual number of layers, egg production, sales, price, and value are a December-November marketing year.
[2] Difference between "Total" and "100+" is operations having 1-99 layers.
[3] Home consumption less than 0.5 million eggs included.
[4] Equivalent delivered processing plant.
[5] Sum of island estimates may not add to State total due to rounding.
[6] Kauai, Maui, and Molokai combined with Hawaii to avoid disclosure of individual operations.

EGGS: Number of layers, production, and price, State of Hawaii, 1980-84

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average[1]
	Average number of layers on hand during month -- 1,000 layers												
1980..	1,021	1,034	1,053	1,052	1,050	1,051	1,052	1,044	1,037	1,011	997	1,014	1,035
1981..	1,021	1,023	1,006	980	967	962	973	968	953	950	945	931	980
1982..	924	918	918	932	935	926	915	912	902	889	868	838	914
1983..	839	843	841	854	860	861	858	860	856	855	898	915	855
1984..	908	920	928	944	950	949	958	970	961	934	933		939
	Egg production -- Million eggs[2]												
1980..	17.7	17.1	19.3	18.7	19.8	19.1	19.2	18.8	17.5	17.5	17.3	18.5	220.5
1981..	19.5	18.2	19.4	18.5	18.8	17.6	18.4	18.9	17.9	18.1	17.4	17.7	221.3
1982..	18.0	16.2	17.1	16.7	18.0	17.1	16.7	16.4	16.2	16.7	15.4	15.5	202.2
1983..	15.8	14.9	17.4	16.6	16.9	16.3	16.8	17.0	16.5	16.9	16.7	17.6	197.3
1984..	17.4	16.4	18.0	17.4	18.2	18.1	18.7	18.2	16.8	16.5	16.4		209.7
	Average farm price -- Cents per dozen[3]												
1980..	71.5	73.5	77.5	79.5	78.0	79.5	77.0	76.0	75.0	75.5	74.0	82.0	75.7
1981..	81.5	82.5	83.0	83.5	82.5	81.0	81.0	81.0	81.0	85.0	82.0	84.0	82.2
1982..	84.0	86.5	86.5	86.5	86.5	87.0	89.0	87.5	87.0	84.5	87.5	89.5	86.3
1983..	88.0	87.0	87.0	87.0	86.0	84.5	85.0	84.0	83.5	83.0	81.0	81.0	85.4
1984..	80.0	91.0	91.5	96.5	96.0	91.5	89.5	89.5	84.0	82.0	83.0		88.9

[1] Annual data are for a December-November marketing year.
[2] Annual totals may not add due to rounding.
[3] Equivalent delivered processing plant.

EGG-FEED RATIO, State of Hawaii, 1980-84[1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
	Pounds											
1980...	6.7	6.8	7.2	7.4	7.3	7.4	7.0	6.6	6.4	6.2	5.9	6.4
1981...	6.4	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7.1	6.8	7.0
1982...	7.0	6.9	6.9	6.9	7.1	7.2	7.4	7.4	7.6	7.3	7.8	7.5
1984...	7.7	7.6	7.6	7.3	7.2	7.0	7.1	6.7	6.6	6.5	6.1	6.8
1984...	6.1	7.1	7.1	7.2	7.6	7.5	7.0	7.0	7.0	6.9	6.8	6.9

[1] Number of pounds of laying feed, equivalent in value to 1 dozen eggs.

BROILER-TYPE CHICK PLACEMENTS, State of Hawaii, 1980-84[1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
	1,000 chicks												
1980...	237	190	219	252	215	241	240	215	210	223	258	268	2,768
1981...	294	238	250	286	219	251	293	208	250	220	238	297	3,044
1982...	219	335	264	245	240	251	268	216	272	271	244	299	3,124
1983...	214	241	247	253	236	263	324	227	216	219	273	271	2,984
1984...	206	245	213	250	304	230	217	236	206	261	215	217	2,800

[1] Inshipments plus local hatch.

BROILERS: December 1 number of operations, sales, price, and value, State of Hawaii, 1980-84[1]

Year	Operations	Number sold[2]	Pounds sold (live weight)[2 3]	Average price (live weight)[4]	Value of sales[2]
	Number	Thousands	1,000 pounds	Cents per pound	1,000 dollars
1980.....	10	2,576	8,758	45.0	3,941
1981.....	10	3,009	10,231	49.5	5,064
1982.....	10	3,044	10,045	50.5	5,073
1983.....	9	2,891	10,697	50.0	5,349
1984.....	8	2,647	9,794	51.0	4,995

[1] Data are for December-November marketing year.
[2] Includes home consumption which is less than 1 percent of production.
[3] To convert live weight to ready-to-cook weight, multiply by a conversion factor of .75.
[4] Equivalent delivered processing plant.

BROILERS: Slaughter and price, State of Hawaii, 1980-84[1]

Month	Number sold[2]					Pounds sold (live weight)[2 3]					Average farm price (live weight)[4]				
	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984	1980	1981	1982	1983	1984
	1,000 birds					1,000 pounds					Cents per pound				
December	213	239	274	251	**202**	681	783	906	922	**719**	43.0	49.0	51.0	51.0	**50.5**
January.....	206	259	252	238	**258**	685	887	903	869	**966**	44.0	48.0	50.0	51.0	**51.0**
February.....	186	236	270	226	**211**	629	799	831	840	**822**	46.5	48.5	50.5	50.5	**51.0**
March.....	190	253	284	220	**240**	626	891	883	756	**906**	47.5	48.5	50.5	50.5	**51.0**
April.....	198	289	268	208	**226**	667	1,015	834	780	**797**	46.5	49.5	50.0	50.5	**51.0**
May	240	257	232	235	**247**	872	850	816	819	**837**	44.5	50.0	51.5	50.5	**51.5**
June.....	220	248	269	355	**206**	757	799	886	1,427	**744**	45.0	51.0	51.0	51.0	**51.5**
July	252	250	227	222	**219**	782	899	752	822	**828**	43.5	50.5	50.0	50.0	**51.5**
August	216	248	235	250	**247**	784	847	786	903	**919**	43.0	50.0	51.0	51.0	**51.0**
September.....	219	230	258	229	**178**	758	778	854	844	**679**	44.5	49.5	50.5	50.0	**51.0**
October.....	235	248	256	234	**205**	829	834	849	860	**950**	46.0	49.5	50.0	51.0	**50.5**
November	201	252	219	223	**208**	688	849	745	855	**827**	47.0	49.5	50.0	42.5	**50.5**
Total or average ..	2,576	3,009	3,044	2,891	**2,647**	8,758	10,231	10,045	10,697	**9,794**	45.0	49.5	50.5	50.0	**51.0**

[1] Data are for December-November marketing year.
[2] Includes home consumption which is less than 1 percent of production.
[3] To convert live weight to ready-to-cook weight, multiply by a conversion factor of .75.
[4] Equivalent delivered processing plant.

BROILER-FEED RATIO, State of Hawaii, 1980-84[1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
	Pounds											
1980...	3.4	3.5	3.7	3.5	3.4	3.4	3.2	3.0	3.0	3.1	3.0	3.1
1981...	3.0	3.1	3.1	3.2	3.2	3.3	3.3	3.3	3.3	3.4	3.4	3.5
1982...	3.4	3.2	3.2	3.2	3.3	3.3	3.3	3.5	3.4	3.3	3.5	3.6
1983...	3.5	3.5	3.4	3.3	3.3	3.3	3.3	3.2	3.0	3.0	2.5	3.1
1984...	3.0	3.2	3.2	3.2	3.2	3.2	3.2	3.4	3.5	3.6	3.6	3.6

[1] Number of pounds of broiler grower equal in value to 1 pound of broiler live weight.

SEED CORN: Number of farms, acreage used for crop, acreage harvested, outshipments, and value, State of Hawaii, 1980-84

Crop year November-June	Farms	Acreage used for crop	Acreage harvested			Outshipments of seed	Value
			Nursery	Observation	Seed increase		
	Number	Acres				1,000 pounds	1,000 dollars
1980-81	5	550	280	120	170	350	2,410
1981-82	5	600	250	135	215	280	2,990
1982-83	5	[1]630	[1]275	165	[1]190	[1]240	[1]3,000
1983-84	[1]6	[1]730	[1]340	[1]90	[1]300	[1]560	[1]4,170
1984-85	6	840	385	140	315	570	4,750

[1] Revised.

FEED CROPS: Acreage, production, sales, and value, State of Hawaii, 1980-84[1]

Year	Acreage harvested	Production	
		Quantity	Value[2]
	Acres	1,000 tons	1,000 dollars
1980	4,702	74.1	1,691
1981	6,495	90.8	2,117
1982	8,705	35.4	1,376
1983	9,347	45.7	2,107
1984	8,993	20.9	912

[1] Includes grains, grass and legume crops, and pineapple green chop.
[2] Includes value of production used on farm where produced.

FEED PRICES: Average price paid by farmers for feed, State of Hawaii, 1980-84

Kind of feed	Unit	1980	1981	1982	1983	1984
		Dollars				
Chick starter	Ton	245	275	262	279	280
Broiler grower	Ton	280	305	302	312	308
Laying feed	Ton	225	250	239	244	253
Dairy feed, 20-percent protein	Ton	215	240	236	245	247
Rolled barley	Ton	196	208	194	196	202
Rolled corn	Ton	193	211	195	217	220
Alfalfa cubes[1]	Ton	191	183	181	190	187
Pineapple bran	Ton	108	131	141	140	145
Cottonseed meal, 41-percent protein	100 pounds	14.60	16.30	16.20	17.60	17.50
Hog feed, 14-18 percent protein	100 pounds	12.50	13.60	13.80	15.80	15.70
Beef cattle feed, 10-20 percent protein	100 pounds	10.90	12.20	13.30	14.50	15.50
Stock salt	100 pounds	5.80	5.60	7.60	8.20	8.30

[1] Beginning in 1982 price is for alfalfa pellets.

FEED PRICES: Average price paid by farmers for feed, State of Hawaii, 1982-84

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
	Dollars per ton											
	CHICK STARTER											
1982...	265	265	265	265	270	265	265	260	260	255	250	260
1983...	260	260	265	275	275	275	275	280	295	295	295	295
1984...	295	290	290	295	290	290	290	285	270	255	255	255
	BROILER GROWER											
1982...	295	315	315	315	310	305	305	295	295	300	285	290
1983...	290	290	295	305	305	305	305	315	330	335	335	335
1984...	335	320	320	320	320	320	320	305	295	285	280	280
	LAYING FEED											
1982...	240	250	250	250	245	240	240	235	230	230	225	230
1983...	230	230	230	240	240	240	240	250	255	255	265	255
1984...	265	255	255	255	255	255	260	255	255	245	240	240
	DAIRY FEED, 20-PERCENT PROTEIN											
1982...	230	235	235	235	235	240	245	240	235	235	230	240
1983...	240	235	235	240	245	245	245	245	250	250	255	255
1984...	265	255	255	260	245	245	250	250	235	230	235	235
	ROLLED BARLEY											
1982...	192	200	199	198	205	205	203	197	185	179	180	182
1983...	186	190	190	192	200	203	190	190	197	204	202	204
1984...	208	208	215	205	217	214	204	200	189	185	185	190
	ROLLED CORN											
1982...	191	195	195	195	204	204	201	202	192	185	187	190
1983...	194	200	207	214	221	221	231	228	234	224	219	215
1984...	219	219	225	220	225	228	229	228	226	210	210	200
	ALFALFA PELLETS											
1982...	176	177	182	186	182	181	183	178	178	184	184	184
1983...	197	190	193	190	190	195	191	191	188	185	184	182
1984...	182	181	182	186	184	188	192	189	189	185	195	190
	PINEAPPLE BRAN											
1982...	142	142	142	142	142	142	140	140	140	140	140	140
1983...	140	140	140	140	140	140	140	140	140	140	140	140
1984...	140	140	140	140	147	147	147	147	147	147	147	147
	COTTONSEED MEAL, 41-PERCENT PROTEIN -- 100 pounds											
1982...	17.50	17.00	17.50	17.50	17.00	15.00	14.50	15.00	15.00	15.00	17.00	16.50
1983...	17.00	17.00	17.00	17.00	17.50	17.50	17.50	18.50	18.00	18.00	18.00	18.00
1984...	18.00	18.00	18.00	18.00	18.00	18.00	17.00	17.00	17.00	17.00	17.00	17.00

FEED: Inshipments from all sources, State of Hawaii, 1980-84

Commodity	1980	1981	1982	1983	1984
			Tons		
Feed Grains					
Barley	12,558	20,506	4,008	[1]37,701	[1]50,781
Corn	39,757	37,688	62,109	37,772	35,125
Mixed	[2]	[2]	[2]	37	66
Oats	236	186	186	1,342	759
Sorghum	180	2,454	168	211	214
Wheat	864	6,183	1,073	12,734	1,501
Total	53,595	67,017	67,544	89,797	88,446
Mixed Feeds					
Calf	453	366	317	371	411
Cattle	5,802	7,129	3,450	3,196	5,381
Dairy	12,133	9,497	10,270	10,305	5,380
Horse	1,458	1,347	1,018	1,245	1,686
Pigeon	698	537	496	516	604
Poultry (including scratch)	6,412	6,762	6,084	5,613	5,178
Rabbit	50	30	18	18	30
Swine	3,539	3,608	3,223	3,266	3,096
Other mixed	106	395	115	9	35
Total	30,651	29,671	24,991	24,539	21,801
Alfalfa Products					
Cubes, pellets, and hay	15,250	22,713	26,056	30,192	[1]32,279
Protein Feeds					
Copra pellets	[3]2,813	[3]1,883	[3]1,595	[3]1,969	[3]1,376
Cottonseed products	11,549	14,401	12,778	[1]9,355	[1]9,099
Cottonseed, whole	4,738	4,362	5,472	6,009	[1]6,946
Meat and bone meal	[1]2,062	[1]1,516	[1]1,713	[1]1,399	1,351
Rape seed products					511
Soybean meal	8,412	8,308	8,181	[1]7,792	10,281
Other protein	39	103	167	0	0
Total	29,613	30,573	29,906	26,524	29,564
Other Feedstuff					
Almond hulls and pellets	2,418	3,123	4,891	4,944	4,602
Beet pulp and pellets	0	802	1,980	2,677	301
Cottonseed hulls and pellets	1,413	1,300	2,808	1,560	[1]1,334
Grain screenings and pellets	6,694	13,234	2,818	2,939	4,626
Grass forage					1,473
Other mill feeds	48	0	0	188	1
Rye grass screenings					749
Whey	76	92	68	106	69
Miscellaneous/unspecified	1,936	3,465	6,763	9,526	6,369
Total	12,603	22,036	19,349	21,943	19,524
Total Feed Inshipments	141,712	172,010	167,846	192,995	191,614

[1] Includes foreign.
[2] Previously included under Miscellaneous/unspecified.
[3] Foreign.

Source: Market News Service, Hawaii Department of Agriculture.

Prices paid by Hawaii farmers, selected items, annual average, State of Hawaii, 1980-84

Item	1980	1981	1982	1983	1984
			Dollars		
Building Materials:					
Framing lumber, 2" x 4", fir, standard and better, per 1,000 bd. ft.	615.00	570.00	530.00	584.00	609.00
Boards, per 1,000 bd. ft.:					
Rough, for farm fences and construction	795.00	750.00	745.00	800.00	770.00
Rough, redwood	NA	1,075.00	1,080.00	1,160.00	1,090.00
Dressed, 1", pine, S_4S, standard and better or No. 2 and better	730.00	730.00	725.00	780.00	850.00
Roofing:					
Asphalt shingles, 3 in 1 mineral surface, approximately 240 lbs., per square	54.00	54.00	52.00	53.00	53.00
Galvanized steel, 26 gauge, per 100 square feet	110.00	105.00	96.00	97.00	97.00
Plywood, exterior glue, ½", C-D-X, per 4' x 8' sheet	16.50	16.00	14.50	15.40	15.00
Concrete blocks, 8" x 8" x 16", per 100	115.00	122.00	127.00	126.00	136.00
Portland cement, per 94 lbs. net, each	7.80	8.70	9.40	9.30	9.10
Equipment and Supplies:					
Iron pipe, galvanized:					
1½" I. D., per foot	NA	1.83	1.90	1.90	1.90
1¼" I. D., per foot	1.40	1.57	1.59	1.59	1.60
PVC pipe, per lin. foot:					
1", I. D.	NA	.44	.47	.47	.45
2", I. D.	NA	.83	[2].83	.84	.85
Barbed wire, galvanized, 12½-gauge, 4-point, per 80-rod spool	45.00	51.00	51.50	58.50	57.50
Stock fence (woven wire), 6" stay wire spacing, 12½-gauge wire, 32" high, per 20-rod roll	97.00	105.00	125.00	126.00	126.00
Steel post, line fence, each	4.00	4.25	4.95	4.50	4.50
Polypropylene shade cloth, per square foot:					
73%, 10' width	NA	.17	.18	.18	.19
78%, 20' width	NA	.19	.21	.21	.23
Hand sprayer, pressure, 3-4 gallon capacity, each	35.50	42.00	42.00	47.00	45.00
Knapsack, sprayer, pressure, stainless steel, 5 gallon, each	NA	145.00	149.00	154.00	153.00
Rope, polypropylene, ½", per 100 feet	19.00	22.00	21.00	20.00	17.60
Nails, 8d, common, per pound	.96	1.05	1.20	1.13	1.17
Fertilizer Materials:					
Concentrated superphosphate, 44-46 percent P_2O_5, per ton	330.00	340.00	340.00	340.00	340.00
Sulphate of ammonia, per ton	195.00	230.00	238.00	225.00	220.00
Urea (45-46% N), per ton	295.00	310.00	330.00	335.00	325.00
Mixed Fertilizers:					
18-46-0, per ton	390.00	395.00	395.00	395.00	395.00

See footnote at end of table.

Continued

Prices paid by Hawaii farmers, selected items, annual average, State of Hawaii, 1980-84 -- Continued

Item	1980	1981	1982	1983	1984
			Dollars		
Petroleum Products, Motor Supplies and Services:					
Gasoline, per gallon (including Federal, State, and local taxes):					
Price, service station (unleaded)	1.36	1.59	1.56	1.51	1.51
Price, bulk delivery (leaded, regular)	1.13	1.31	1.26	1.19	1.20
Diesel fuel, per gallon	1.02	1.21	1.18	1.21	1.20
Motor oil, per gallon:					
Regular (non-detergent)	2.60	3.75	3.55	4.05	3.95
Heavy duty (detergent)	2.80	[2]3.75	3.80	4.40	4.25
All-weather (high detergent)	3.15	4.05	4.30	5.05	4.80
Auto tires (tubeless):					
Radial, steel-belted, size P195/75R14, ER78-14, each	83.00	86.00	83.00	82.00	80.00
Bias-belted, size E78-14, each[1]	61.00	63.00	56.00	59.00	50.00
Truck tires, each:					
7.00-15, 6-ply	74.00	77.00	76.00	81.00	75.00
Storage batteries, auto and light commercial 12 volt, cranking performance rating (CPR) (BCI STD):					
CPR 220-310 amps	57.00	58.00	58.00	62.00	59.00
CPR 315-500 amps	73.00	75.00	75.00	76.00	78.00

[1] Prior to 1981 G78-15.
[2] Revised.

FERTILIZER: Consumption by kind and primary nutrients, State of Hawaii, year ended June 30, 1980-84

Year	Mixtures	Direct application materials		Total	Primary nutrients		
		Primary nutrients	Secondary and micro-nutrients		N	Available P_2O_5	K_2O
	Tons						
1980...	108,590	58,527	2,291	169,409	23,126	19,246	20,901
1981...	102,546	46,863	728	150,137	18,907	13,629	21,963
1982...	100,797	54,627	1,015	156,439	22,086	11,010	24,134
1983...	97,360	40,114	869	138,343	18,698	12,651	19,557
1984...	83,544	44,108	696	128,348	16,026	10,318	17,042

FERTILIZER: Consumption chemical nitrogen materials, State of Hawaii, year ended June 30, 1980-84

Year	Ammonia		Ammonium		Nitrogen solution	Sodium nitrate	Urea	Other	Secondary and micro-nutrients
	Anhydrous	Aqua	Nitrate	Sulfate					
	Tons								
1980...	0	11,889	0	1,197	20,533	9	8,379	73	2,069
1981...	0	2,413	0	1,231	10,115	3	3,618	104	728
1982...	0	382	0	785	18,279	0	4,035	1,952	1,015
1983...	0	1,401	0	776	11,086	3	3,685	104	869
1984...	20	623	1	482	11,128	2	2,723	142	696

FERTILIZER: Consumption phosphate and potash materials, State of Hawaii, year ended June 30, 1980-84

Year	Phosphate					Potash		Natural organics
	Superphosphates		Phosphate rock[1]	Ammonium phosphates	Other	Chlorides 50% - 62%	Other	
	22% and under	Over 22%						
	Tons							
1980...	0	3,334	1,303	165	6,470	2,714	14,742	0
1981...	0	4,419	327	0	7,789	1,153	15,691	0
1982...	0	614	188	33	9,901	2,931	15,527	0
1983...	0	2,107	88	0	7,325	698	12,841	0
1984...	0	436	86	0	9,492	242	18,731	0

[1] Includes colloidal phosphate.

AGRICULTURAL EMPLOYMENT: Workers on farms, State of Hawaii, annual averages, 1980-84[1]

Year	Total farm employment			Hired workers by type of farm		
	Self employed farm operators	Unpaid family members	Hired workers	Sugar	Pineapple	Other
1980...	3,400	1,100	10,550	4,840	2,510	3,200
1981...	3,100	900	10,500	4,875	1,975	3,650
1982...	2,600	1,300	13,000	4,900	3,750	4,350
1983...	2,500	1,500	13,000	4,850	3,250	4,600
1984...	2,200	1,300	12,000	4,625	2,550	4,900

[1] Quarterly survey discontinued May 1981. Averages for 1981 are only for January and April quarters and therefore not comparable with previous years. Data for 1982 and 1983 are based on annual surveys for week in July only. Average for 1984 is of July and October quarters.

AGRICULTURAL EMPLOYMENT: Total workers on farms, quarterly, State of Hawaii, 1984[1]

Island	Self employed farm operators		Unpaid family members working 15+ hours		Hired workers	
	July	October	July	October	July	October
Hawaii.....	1,550	1,500	1,050	800	4,150	4,100
Kauai.....	100	100	100	50	1,400	1,400
Maui/Molokai/ Lanai.....	300	300	100	100	4,000	3,400
Oahu.....	450	400	350	250	2,350	2,850
State[2].....	2,400	2,000	1,600	1,000	12,000	12,000

[1] Estimates for week which includes 12th of each survey month. [2] Sum of island estimates may not add to State total due to rounding.

AGRICULTURAL EMPLOYMENT: Hired workers by type of farm, State of Hawaii, 1984[1]

Island	Sugar		Pineapple		Other	
	July	October	July	October	July	October
Hawaii.....	1,500	1,350	--	--	2,650	2,750
Kauai.....	1,250	1,250	--	--	150	150
Maui/Molokai/ Lanai.....	1,250	1,250	1,950	1,350	800	800
Oahu.....	700	700	950	850	1,200	1,300
State[2].....	4,700	4,550	2,900	2,200	4,800	5,000

- = Negligible or not applicable. [1] Estimates for week which includes 12th of each survey month. [2] Sum of island estimates may not add to State total due to rounding.

AGRICULTURAL EMPLOYMENT: Wage rates by method of pay and type of work, State of Hawaii, July and October 1984[1]

Method of pay	July	Oct.	Type of work performed	July	Oct.
	Dollars/hour			Dollars/hour	
All hired farm workers.....	7.21	7.42	Field workers.....	6.13	6.52
Paid by other than piece-rate.....	8.80	9.72	Livestock workers.....	5.94	5.95
Paid by hour only.....	6.90	7.01	Supervisors.....	10.03	10.34
			Others.....	8.60	8.25

[1] Perquisites such as room and board, housing, etc., are provided some workers in all categories, except where footnoted otherwise, in addition to wage rates shown.

DEFINITION OF TERMS

Agriculture: All operations performed on a "farm" in connection with planting, growing, and harvesting of crops; raising and feeding of livestock and poultry, and management. All operations in connection with preparation of farm products for market where the preparation does not alter the form of the product and transportation to the first delivery point. In Hawaii, the first delivery point is defined as the processing plant door or other receivers' establishment for marketings on the island of production. For off-island marketings, the first delivery point is generally shipper's dock.

Farm: A place with estimated (or expected) annual sales of agricultural products of at least $1,000.

Livestock operation: A place that has one or more head of the species on hand at any time during the year. Does not have to meet farm definition.

Crop production: Estimated production is the amount of crop harvested and transferred at the first delivery point. Production estimates of vegetables and fruits include the quantity for fresh market and processing use.

Livestock production: Estimated amount of livestock and livestock products sold. Includes allowance for amount used on farms where produced.

Farm price: A computed price to value agricultural production which may or may not reflect the average price at which actual transfer of ownership took place but which is comparable with the definition of "agriculture". See "agriculture" for definition of pricing point.

Market supply: Includes pounds of product sold in Hawaii to both Armed Forces and civilians (outshipments excluded) plus products shipped in for civilian use. Direct inshipments to the Armed Forces are excluded.

SAMPLING METHODS AND ESTIMATION

The Hawaii Agricultural Reporting Service uses a variety of sampling techniques to produce current agricultural statistics about crops, livestock, prices, farm labor, and other information relating to the agricultural economy.

Data is collected, summarized and estimates are prepared. These estimates then pass through the Crop Reporting Board of the U. S. Department of Agriculture where, for major items, Hawaii estimates become part of National totals and enter the official data base for agriculture. National and State estimates are published according to a schedule set one year in advance.

The Hawaii Agricultural Reporting Service conducts many of its surveys by virtually complete **ENUMERATION** of certain parts of the population. This is unusual compared to procedures in other states but is feasible in Hawaii due to the relatively small size of certain categories of the farm universe or the extreme concentration of ownership. Vegetable and poultry surveys are among those where complete enumeration is the usual procedure.

LIST SAMPLING is a common means of data collection. Lists of farm operators are well suited for the low cost collection of information by mail. Supplementary information is included within the frame that allows the use of efficient stratified sample designs. A major disadvantage of this method is the constant change in the list frame which can never be perfect. In Hawaii, cattle and hog surveys are examples of stratified list sample designs.

AREA FRAME SAMPLING can be used alone or in conjunction with the list frame. The frame consists of an aggregation of identifiable units of land or segments which may be sampled. The frame is complete and does not suffer the type of deterioration over time as does a list frame.

MULTIPLE-FRAME SAMPLING is the use of two frames. It takes advantage of the best attributes of the area frame and the list frame, produces unbiased estimates and allows measurement of the sampling error. This survey method is currently used for agricultural employment and wage rate surveys.

OBJECTIVE YIELD SURVEYS provide information from direct counts, measurements and weights of the crop made from small plots in a probability selection of sample fields. Currently, this method is used for forecasting papaya yield four months in advance of harvest. Research is underway to determine the feasibility of using this methodology on other crops.

CHECK DATA is used in addition to producer surveys to establish final production and marketings. These include processor receipts, slaughter, vacuum cooler volume, public tax records, and inspections. Unloads at Honolulu and wholesale prices as reported by the Market News Service, are an important check data source. Also, grower organizations, such as the Hawaiian Sugar Planters' Association, provide an efficient means of obtaining information concerning sugar production.

Hawaii Agricultural Reporting Service

REPORTS ISSUED

Report	Frequency
CROP RELEASES	
Avocados	Annually
Bananas - Production & Price	Monthly
Bananas - Acreage	Annually
Coffee	Semi-annually
Fresh Fruit	Annually
Processed Fruit	Annually
Ginger Root	Annually
Guavas	Annually
Macadamia Nuts	Semi-annually
Papayas - Acreage, Production & Price	Monthly
Sugar - Acreage & Production	Aug.-Dec.
Taro	Annually
Vegetables - Acreage, Production & Price	Monthly
Vegetables	Annually
Vegetables Processed - Quantity & Price	Annually
Vegetables - Expected Honolulu Vegetable Supply	Weekly
FLOWERS AND NURSERY PRODUCTS	
Anthuriums - Exports	Monthly
Dendrobium Orchids	Annually
Flowers and Nursery Products	Annually
Out-of-State Sales	Annually
Poinsettias	Semi-annually
Protea - Plant Inventory	Periodically
LIVESTOCK RELEASES	
Cattle - Jan. 1, Inventory & Calf Crop	Annually
Cattle - Slaughter and Pasture Condition	Monthly
Chickens & Eggs	Monthly
Hogs - Dec. 1, Inventory & Pig Crop	Annually
Hogs - Slaughter	Monthly
Honey	Annually
Milk - Production, Cow Numbers & Prices	Monthly
WEEKLY CROP WEATHER	Weekly
OTHER PUBLICATIONS	
Agricultural Labor & Wage Rates	Annually
Fertilizer Use	Annually
Prices Paid - Feed	Monthly
STATISTICS OF HAWAIIAN AGRICULTURE	Annually

The above reports may be obtained by contacting the Hawaii Agricultural Reporting Service, P. O. Box 22159, Honolulu, HI 96822 (Office - 1428 S. King St., Honolulu, HI).

EXPLANATION OF GRAPHS AND TABLES ON PAGES 77 and 83

BEEF-VEAL SUPPLY: Historical beef-veal supply data consists of all Hawaii production, carcass weight basis, foreign imports, converted to carcass weight equivalent and mainland inshipments, weight-as-shipped. Foreign and mainland inshipments of processed beef are excluded. Also, no adjustment is made for changes in inventory. Estimated supplies are derived as a function of U. S. per capita consumption of beef and veal, and Hawaii's de facto population (excludes the armed forces). Yearly historical data from 1950-1970 on Hawaii production, U. S. mainland, and foreign inshipments were totaled to serve as the dependent variable with which the supply equation was estimated. The resulting equation indicated Hawaii beef supply with a correlation coefficient of .98.

PORK SUPPLY: All historical and estimated pork supply data involved dressed weight of pork with the exception of mainland inshipments which, at times, includes live hogs shipped into Hawaii for slaughter. Foreign and mainland inshipments of processed pork are excluded. Estimated supplies are derived as a function of U. S. per capita consumption of pork and Hawaii's de facto population (excludes the armed forces). Yearly historical data from 1950-1969 on Hawaii production, U. S. mainland, and foreign inshipments were totaled to serve as the dependent variable in estimating a market supply equation. The resulting equation indicated Hawaii pork supply with a correlation coefficient of .90.

CHICKEN-BROILER SUPPLY: All historical chicken-broiler poundage data, as well as estimated supplies, are expressed on a ready-to-cook basis. Estimated supplies are derived as a function of U. S. per capita consumption and Hawaii's de facto population (excludes the armed forces). Yearly historical data from 1950-1969 on U. S. mainland inshipments and Hawaii production was totaled to serve as the dependent variable in estimating the supply equation. The resulting equation indicated Hawaii chicken-broiler supply with a correlation coefficient of .99.

Revisions to prior years are made when final figures on population and per capita consumption are available.

PHOTOGRAPHY ACKNOWLEDGEMENTS

Cover photo: Coffee field on Kona Coast of Hawaii island, courtesy of Bob Woodrum of Woodrum and Staff, Ltd.

General summary: Papaya field on Kauai, page 2.

Crop summary: Potato field being irrigated on Oahu, page 14.

Coffee feature: Photos showing all aspects of Kona coffee production, courtesy of Bob Woodrum of Woodrum and Staff, Ltd., page 30.

Livestock summary: Feeder pigs, Hokama Farm, Inc., Waianae, Oahu, page 69.